A project report on

CORPORATE WORKFLOW ENHANCER WITH GROUP-SOLUTIONS

Submitted in partial fulfillment of the requirement
For the award of the degree

MASTER OF COMPUTER APPLICATIONS

Of

Visvesvaraya Technological University
Belgaum, Karnataka
By

NAVEEN KUMAR V

1CY18MCA58

CMR INSTITUTE OF TECHNOLOGY
132, IT Park Road, Kundalahalli, Bangalore-560037
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Under the guidance of

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Bangalore

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CMR INSTITUTE OF TECHNOLOGY
132, IT Park Road, Kundalahalli, Bangalore-560037
2019-2020

CMR INSTITUTE OF TECHNOLOGY

Department of Master of Computer Applications

Bangalore - 560037

CERTIFICATE

This is to certify that the project work entitled

CORPORATE WORKFLOW ENHANCER
WITH GROUP-SOLUTIONS

Submitted in partial fulfillment of the
requirement for the award of the degree of
Master of Computer Applications
of the
Visvesvaraya Technological University, Belgaum, Karnataka
is a result of the bonafide work carried out by

NAVEEN KUMAR V
1CY18MCA58

during the academic year

2019-2020.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Ms.Varsha Pawar	**Ms.Gomathi.T**	**Dr. Sanjay Jain**
Assistant Professor, MCA	HOD, MCA	PRINCIPAL, CMRIT

External Viva

Name of the Examiners — Signature with date

1.

2.

DECLARATION

I, **Naveen Kumar v,** student of 6th Sem MCA, **CMR Institute of Technology**, bearing the USN **1CY18MCA58**, hereby declare that the project entitled **"Corporate workflow enhancer with group-solution"** has been carried out by me under the supervision of External Guide **Mr. Rakesh J**, Technical Manager, Semantic Tech Labs, Bangalore and Internal Guide **Ms.Varsha Pawar**, **Assistant Professor**, **Dept. of Master of Computer Applications** and submitted in the partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications by the **Visvesvaraya Technological University** during the academic year 2019-2020.The reports has not been submitted to any other University or Institute for the award of any degree or certificate.

Place: Bangalore

Date:

Naveen Kumar V

(1CY18MCA58)

ACKNOWLEDGEMENT

I would like to thank all those who are involved in this endeavour for their kind cooperation for its successful completion. At the outset, I wish to express my sincere gratitude to all those people who have helped me to complete this project in an efficient manner.

I offer my special thanks to my external project guide Mr. Rakesh J, Technical Manager, Semantic Tech Labs., Bangalore, and to my Internal Project guide Ms.Varsha Pawar, Department of MCA, CMRIT, Bangalore without whose help and support throughout this project would not have been this success.

I am thankful to Dr. SANJAY JAIN, Principal, CMRIT, Bangalore for his kind support in all respect during my study. I would like to thank Mr. Rakesh J, Technical Manager, Semantic Tech Labs., Bangalore, who gave opportunity to do this project at an extreme organization Most of all and more than ever, I would like to thanks my family members for their warmness, support, encouragement, kindness and patience. I am really thankful to all my friends who always advised and motivated me throughout the course.

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CERTIFICATE

This is to certify that the project titled "Corporate workflow enhancer with group-solutions" is submitted to Semantic Tech Labs in fulfillment of the requirement for the final semester degree of MCA from CMRIT, Bangalore.

The project is a bona fide record at work carried out by Mr. NAVEEN KUMAR V (USN: 1CY18MCA58) under the supervision and guidance of Mr. Rakesh J (Technical Manager), Semantic Tech Labs Bangalore between the periods from 23-12-2019 to 29-5-2020.

The source code of the Project and executable file setup is not issued to the trainee as per the policy of the company. Screen print for the application is provided in limited no's.

Thanking You,

For Semantic Tech Labs

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(Mr. Rakesh J)

S.NO.	Contents	Page No.
1.	Introduction	**1**
	1.1 Project Description	**1**
	1.2 Company Profile	**4**
2.	Literature Survey	**6**
	2.1 Existing System and Proposed System	**6**
	2.2 Feasibility Study	**8**
	2.3 Tools and Technologies Used	**10**
	2.4 Hardware and Software Requirements	**15**
3.	Software Requirement Specification	**16**
	3.1 Functional Requirements	**17**
	3.2 Non- Functional Requirements	**20**
4.	System Design	**22**
	4.1 System Perspective	**22**
	4.2 Context Diagram	**23**
	4.2.1 Data flow diagram of admin	**24**
	4.2.2 Data flow diagram of user	**25**
5.	Detailed Design	**26**
	5.1 Use Case Diagrams	**26**
	5.1.2 Use Case Diagram for Corporate workflow enhancer with group-solution	**27**
	5.2 Sequence Diagrams	**28**
	5.2.1 Sequence Diagram for admin	**28**
	5.2.2 Sequence Diagram for user	**29**
	5.3 Activity Diagrams	**30**
	5.3.1 Activity Diagram for admin	**30**

	5.3.2 Activity Diagram for user	**31**
	5.4 ER Diagrams	**32**
	5.4.2 ER Diagram for workflow enhancer with group-solution	**32**
6.	Implementation	**34**
	6.1 Screen Shots	**34**
7.	Software Testing	**40**
8.	Conclusion	**42**
9.	Future Enhancements	**43**
10.	User Manual	**44**
11.	Bibliography	**52**

Introduction

Project Description

Complex proceedings that are needed for the unified working is provided with service provisions. The system and even it contains all types of references which are suitable to provide different workability for the organizations. The system is established to provide various types of Differential acknowledgements which is based on cell selection and reference working. System is also associated with various references of fog computing which includes all references of interpretations, vital distribution of infrastructure workability, stationed tools, centralized control, multiple mediums of integrations based on multi preceding.

The system is associated with a Wizard design option which will help to acknowledge the information by the administrator so that the system can promote the customized work in according to the requirements so for example if a particular company wants multiple activity is to be preceded the administrator has to first design multiple wizards. Is the wizards of selected it has to be incorporated with different types of related options which are related with the access settings, the related backup settings, the related usage settings, the related branding settings and multiple types of categorical reference design setting.

The administrator is provided with multiple options according to which multiple users can be added so that defines of the work and accessibility can be established. Also allocates various types of categorical proceedings where in a particular visit multiple categories can be added so that if individual defining of the work is needed. The substantial data backup system is also included where all appropriate information for the measures taken by the system in terms of integrated data security and synchronization is associated. The administrator will be provided with a real-time cloud repository that has to be selected so that any type of data can be accomplished with the deliberation settings.

The system of Technology is various branding consideration so that regulated view can be designed in which multiple options of themes, multiple references of other view settings are provided which has to be selected and has to be added. The considerations that are structured by the administrator is helpful to manage parallel working because each and every wizard can be utilized for different types of work references. The considerations of real time for the nation is also supported within the system which is intended in a way that multiple references

can be achieved and any type of cooperative reflex is required by the organization can be associated whenever required with different types of conditional setups.

The accomplishments of different types of activities are related with all types of request resource provisions and even multiple types of categorical resource inclusions provided. Multiple considerations based on the reference of detailed working is established within the system which is included with multi groupware allocations so we can say that any type of required references that are required for the development can be achieved.

Various types of parallel maintenance provisions are included within the system which will help to allocate different reference of work provisions on a single system making it quite easier. The system is also incorporated with various types of social media integration which will help the company to acknowledge various types of alliances which will be helpful for the optimization activities which are required to be performed. The systematic categories that are provided for the integration of different types of social media platforms will help to define the composition properly.

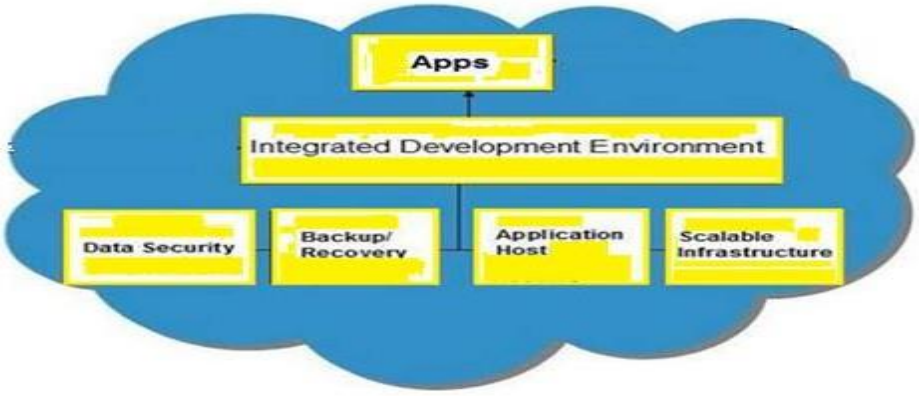


Fig-1

Cloud considerations involved in the design perception is shown

The system is also associated with multiple types off real time conversation where we require that all types of enterprise activities can be summarized or we can say that when multiple things will be working they will be having the references of proficiency for synergic activities. The system is designed to provide the references based on overruling so any type of consideration that is required to be acknowledged within the system will be provided with

multiple types of setting options. Each setting considerations can be established with different formations of accessibility and in terms of different types of working consideration.

Multiple types of references in terms of information are also associated where the information tracking crawlers and different types of synchronized update mechanism is utilized. The system will provide multi references of information in a way that any type of referential usage required for the Planning can be achieved. The system when provides different types of information it provides all types of the vicinity and in real time. The system design format is to provide all types of distributed working with multi tenancy where different types of working applications can be designed with all types of custom provisions so this will be very much helpful as any intention required the related wizards can be designed and can be used. The utilities that are also associated within the system can be defined with parallel setting provisions so that elaborated and persuasive control can be achieved.

Company Profile

Semantic tech labs

The association is related with different business recognitions as far as various Global accomplices. The Organization was built up in 2009 and now benefits various kinds of hierarchical space organizations in reference to various very good quality business insight and hand craft arrangements. The significant changes and adjustments that are required as far as the administrations furnished will be furnished with the assistance of cooperative innovative work group.

The working observation is as far as tweaked relationship with each customer to give them all the necessities they require with progressively ideal understanding as an extensive research work will be embraced to give any sort of administration required by the customer. The organization takes a shot at worldwide scale to give the specific prerequisite comprehension of the customers as the customers will be related with various areas for instance software's, retail, banking and so on.

Some of the main services provided by the organization are listed below-

Web Application Development

Payment Gateway Integration

UI/UX Design for Web Application

Architecture Design

Database Migration

Backup & Recovery

Feature Enhancement

Application Migration & Porting

Database Design & Development

Software Testing

Software Development

Market research and prediction

2. Literature Survey

Existing System and Proposed System

Existing system

Various types of consideration that are needed for applying unified working is not supported because the resolutions that are required is undertaken on individual perception by different types of organizations. We have acknowledged multi consideration in respect to the distributed infrastructure based working and we found that multiple types of problems are faced by the organizations. Various types of references based on the consolidated working are also not supported in the existing work scenario.

Important problems that has been outlined is listed as following-

- Pull together workability which is required by multiple types of organizations when different processes of project and different references of teams are working is not supported in the existing system. Synchronization is required but it is not possible due to the way the difference activities managed.
- Multilevel of workability is organized by different types of tools in the existing scenario so the expected consolidation is not supported so all references are organized by different tools.
- In the existing system even the considerable information which is needed for the review is not supported so it is difficult to handle different process information tracking. The information is important for the control but it is quite tricky in the existing system to get it .
- In the existing system even the stockpile all the related data reference that are required to be secured and managed is also quite difficult because multiple types of data security references and methods are required to be implemented.
- In the existing system even the integrated media authority which is required for different component implementations is also not provide and cannot be organized from a single system reference because different types of related authority and work integration configuration are required.
- Parallel infrastructure support and fog computing is not supported from a single instance of reference work Where distributed acknowledgement can be provided so

teach network configurations are required to be performed on the individual preferences by the organizations .

- Multiple types of custom and access settings cannot be incorporated in different references of process based working status quite difficult by the organizations to acknowledge the settings required.

Proposed system

The proposed references are important to be refined because we have to understand different types of consideration that we are acknowledged as a problem to provide proper supervision to the organizations by including all types of help considerations. The proposed system is designed to provide all types of referential control intended working on a single system with distribution. The proposed system is designed for all types of model support that is required for parallel infrastructure workability and includes all types of utility computing formations.

Some of the important references which are acknowledged in terms of working for the proposed system are listed as following -

- Pull together workability is supported within the system as the administrator will be having distributed infrastructure setup position where the considerable working status in synchronized orientation can be acknowledged. The propose system supports all types of work synchronization for better working.
- Multilevel of working is also organized within the system as various types of defined tools and different types of approaches are provided for the selective usage where different types of venture activities can be performed. All the related utilities are provided on a single instance.
- Information view which is required for accomplishing various types of prospective planning and to structure the business activities is also provided from single system as multi consideration of the information will be presented with various types of enrichment customization.
- Data security and the stockpile references is also associated with the proposed system where the users will be having different options to select and to acknowledge the type of cloud security required and the type of accessibility variations required.
- Integrated media authority and all the related component implementation is also supported in the proposed system which will help the companies to characterize their work in more proper synergy. All types of compatibility support is provided.
- Parallel infrastructure support and fog computing is also provided with all types of amalgamation requirements and all types of quest that is needed to maintain their infrastructure.
- Customization and access settings for different types of processes that are required to be incorporated on to the stage with in numerous references and segregation is provided so that accomplishments of different task can be performed.

Feasibility Study

Feasibility references are very much important because we have to understand all types of related components that are being included within the system so that proper operative references can be designed for which we have to understand the related technical requirements that is associated with the project and the related operational requirements. The feasibility study will be also performing to understand all types of requirements based on Investments.

Technical feasibility

Operational feasibility

Economic feasibility

Technical feasibility

Technical references which are based on providing different types of Wizard design and component references will be checked because the integrated working will be different

All types of references of technology that has to be intended for the working will be referenced because first we have to outline that how the technological variations for the support of the features will be acknowledged.

Environment will be set up where all detail infrastructure support utilities will be provided and accordingly the environment setup will provide place to utilize and work for different types of design and operations.

All types of workability support will be within the company environment with all types of working hierarchies defined.

Operational feasibility

Operational considerations are related with exploring the formation of support that has to be provided to the users.

The considerations of the acceleration is in terms of understanding the clients requirements in the real-time and based on which all the related features that have provided with the system will be related and additional documentation will be prepared.

The considerations of operations are required to be properly generalized because we have to tell the users that how the system can be operative in different types of supervision and how all types of accomplishments of the business process can be properly recognized.

The users will be provided with a training provision also so that they will be having more referential understanding about the work.

Fig-2

Details of feasibility reference provided

Economic feasibility

The economic considerations are based on the economic liquidity which is required for the company should have all the cash and money for the related design and implementation processes to be implemented so the funding will be prepared and will be done by the organization itself.

Multiple types of considerations that are required for acknowledging the scenarios that may arise in the future will be also checked.

Return on investment calculations for better understanding of the prophet will be also handled and it will be done by the financial department.

Tools and Technologies Used

Java

We will utilize different editors for Java that is accessible for instance Net Beans and Eclipse. Some noteworthy utilization of Java is that it is having meaning healthy faultlessness that suggests it is reliable as it can manage different sorts of uncommon case dealing with, memory portions, and waste social event.

Java has been configuration by sun Microsystems to give the necessary adaptability and furthermore it gives stage autonomous byte codes. Java is a made sure about language which will utilize different open keys for the refreshed security arrangement.

My SQL

My SQL is promoted in supported by My SQL which is a Swedish association, and different assortments are given by My SQL to point of reference,

It is the most predominant database group and huge subsets of the functionalities can be properly sifted through,

It is an open source grant based working.

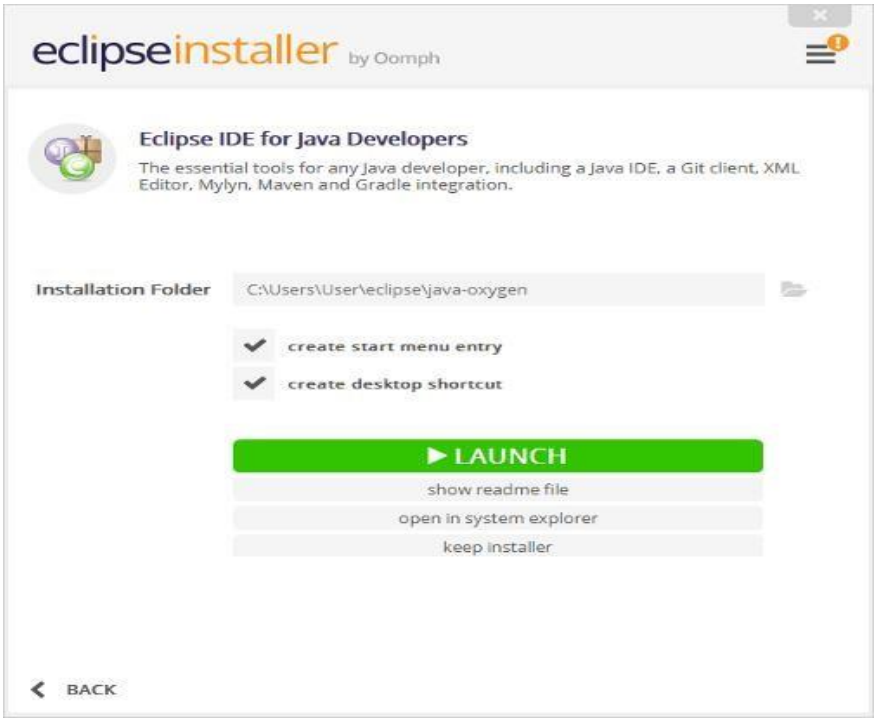
It will be versatile.

My SQL works on many working structures and it support different lingos for example Java PHP, etc.

Installation

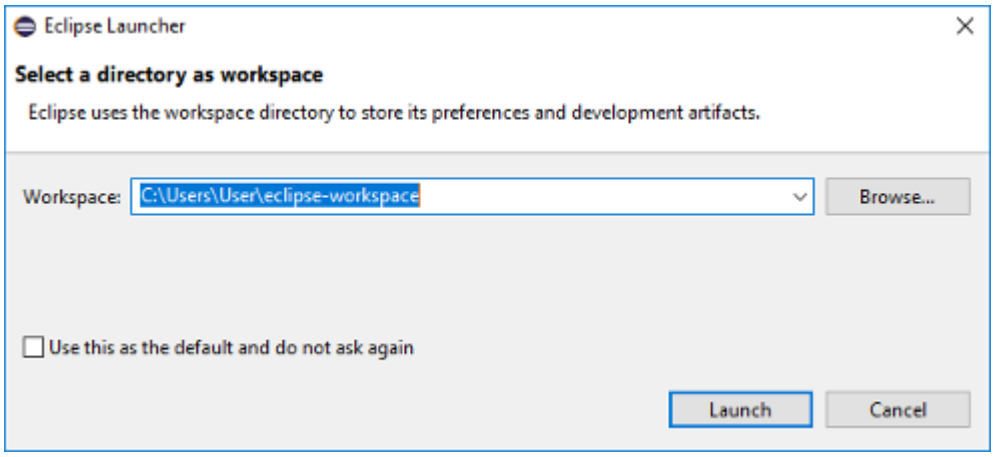
1. Run the Eclipse installer.

2. Click the "Launch" button.

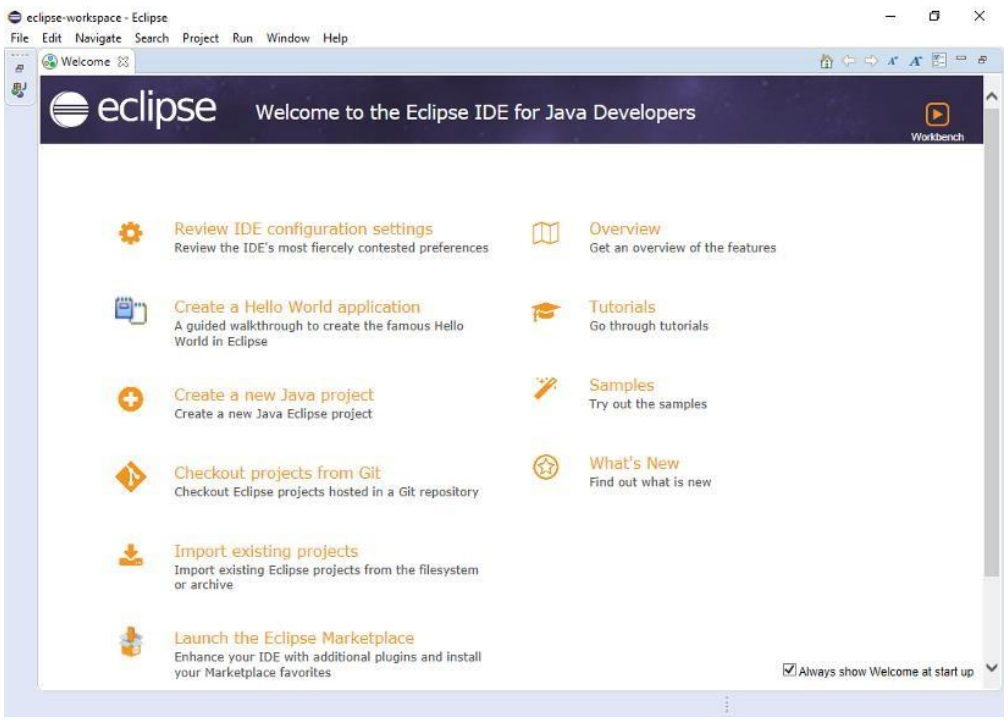


Configuration

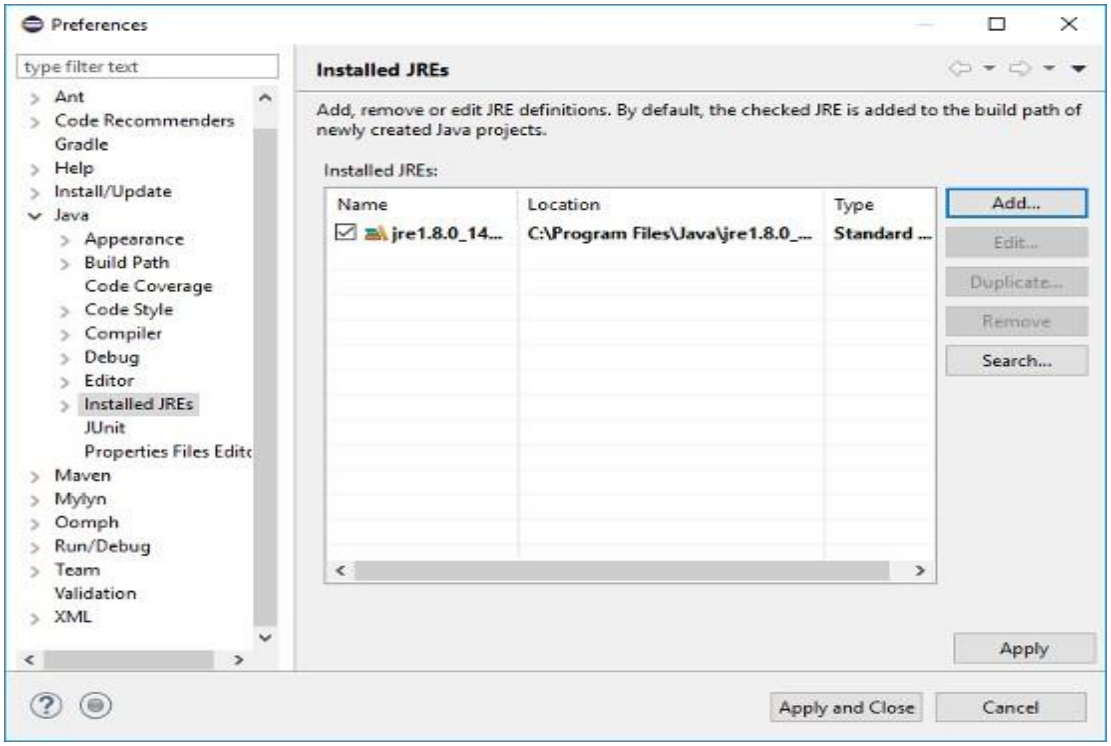
1. Run Eclipse



2. Open the regular editor.

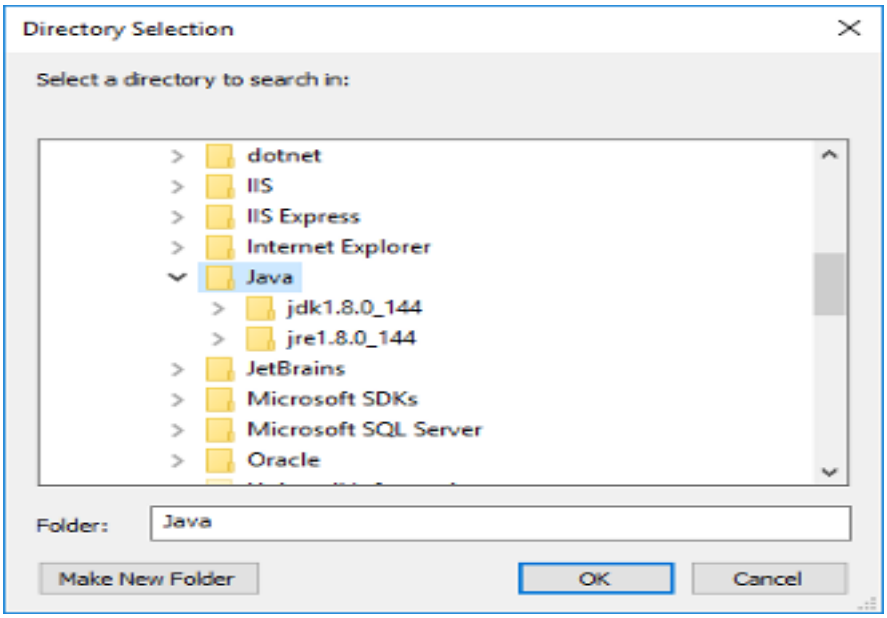


3. select "Java > Installed JREs":

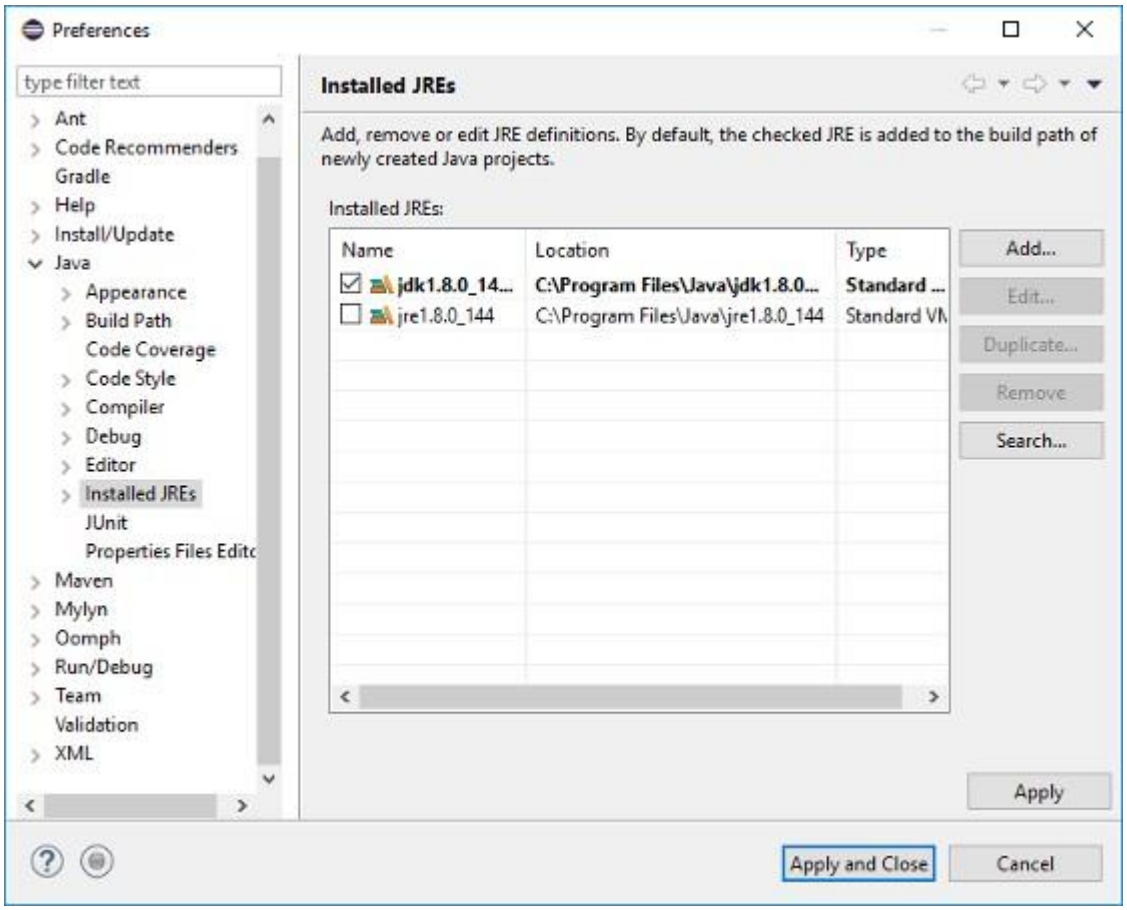


4. Click the "Search" button and select the "Java" folder.

   - Windows: C:\Program Files\Java



5. Select the line for the JDK:



6. Click the "Apply and close" button.

Hardware and Software Requirements

Software requirements

Databases

MySQL 8.0.13

Technology

Hybrid cloud (implementation)

Platform

Windows

Languages

JAVA (J2EE, JavaScript, JSP)

Integrated development environment

NetBeans/Eclipse

Supporting Server

Apache Tomcat 8, SSD cloud server, Amazon s3

Hardware requirements

- Computer processor : 4th generation Intel core i3
- Clock speed : 1.7 GHz
- Hard Disk Space : 500 GB
- RAM : 4 GB

3. Software Requirement Specification

Users

Administrator,

All types of integrated working requirements and all types of component selections will be done by the administrator when any type of organization will be provided with the workability references. The administrator will be having all the authorities to acknowledge the work and in regards the other users can integrate and work.

Team members,

Team members are the users who will be provided with different types of references of work and in their control whatever perceptions are provided they have to login and they have to perform. The team members will be also tracked related to their activities.

Scope and objective

The related scope of the system is to acknowledge multi considerations of the workability on a single integrated system where all references of distributed infrastructure and utility computing a supported making it a cost effective way for the work processes to be acknowledged.

The objective of the system is distributed and shared working where multiple categories are provided in all reference components are provided so that globally any organization can have the reference of work properly accomplished.

Assumptions and dependencies

The assumption of the system is that user should have proper infrastructure working authority and they should be having detailed references of the working rights.

The dependency of the system is that wizards are required to be prepared and according to the conditions the wizards are required to be utilized for different perceptions of working.

Problem statement

Problem reference of the system design is in terms of distributed activities where redefining of the visits are required to be provided with multiple customization and setting options.

Even the utilities for the for computing references and different types of multi tenancy is required to be included within the system.

Information references are also required to be acknowledged and all shared working is also required which needs multiple types of integrated platform relations and authority.

Functional Requirements

Functional requirements are the basis of design formations that will be acknowledged so when different types of categories required for the distributed working is provided each category will be taken and will be discussed in terms of the triggers and in reference of inputs and output considerations.

Working infrastructure

Use Case Name	working infrastructure
Trigger	Settings
Precondition	Admin control
Process	Designing the working infrastructure is provided first to the administrator where different types of conditions are required to be acknowledged and when these conditions are acknowledge the system will save the provisions and accordingly the workability levels and integration designs will be applicable. Multiple stages can be set up at the same time and all types of composition plans will be provided by the system to acknowledge the requirements.
Post-condition	Details added

Utility computing provisions

Use Case Name	utility computing provisions
Trigger	Settings
Precondition	Authentication
Process	The utility computing provisions that are required will be satisfied with the help of different types of global perception and to eat any type of information provision related amalgamated categories will be utilized. System provides all types of mechanism to list the referential requirements and settings so any type of related infrastructure is required to be related with a particular operation the references of utilities can be selected and configured directly.
Post-condition	Details provided for configurations

Synchronization

Use Case Name	synchronization
Trigger	Selective
Precondition	Authentication
Process	The usage of different types of coordination and sharing references are also associated so the administrative will be providing the composition of how the related synchronization will take place with the help of the detailed setup that have provided and in reference to which the related considerations of synchronization will be considered. Multiple applicable teams can be redefined from a single control instance which is helpful for the elaborations of the work considerations required by the organizations

	to handle different types of ventures.
Post-condition	Sync reference added

Statement broadcast

Use Case Name	statement broadcast
Trigger	Inputs
Precondition	Working process undertaken
Process	Integrated system of statement broadcast is provided within the system which will be used to get different types of business information. The system will provide input provisions that has to be provided and accordingly the related processing will be undertaken and in reference to which the related feeds in real time will be provided to the users. The processing of the information is quite important for different types of resolution understanding or for different types of study.
Post-condition	Added details for generation

Accessibility security

Use Case Name	Accessibility security
Trigger	Auto and selective

Precondition	Authentication done
Process	The considerable documentations that have required are also associated where the references of security are considered. Any type of work provision related accessibility is required to be controlled can be done by the administrator by setting of different sources of data management. Accessibility security and variations of link co-ordination is also included where different types of platforms will be included and for the related working it will be utilized. Multiple automated encrypted security is also associated by the system.
Post-condition	Reference added

Non- Functional Requirements

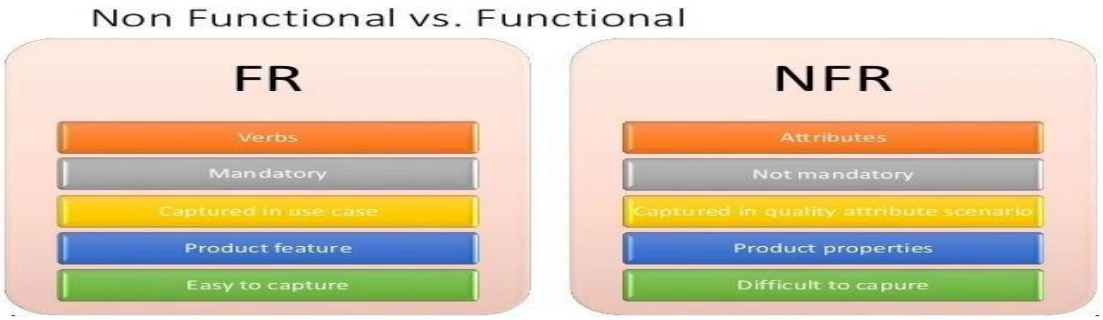
We have to achieve the quality and for achieving the quality proper request references for the users are required to be prepared and to be provided so we have to understand that a proper adaptability scenario of proper control scenario of proper security scenario has to be provided to the users.

Security

Integrated tokens are provided so that any type of reference platform which will be integrated will be secured in terms of data transfer and even multiple types of encryption algorithms are utilized for the data security. Multiple types of conditions can be set up for individual wizards that are included within the system.

Inter operations

Inter operations are available as in terms of the considerable working because we have to acknowledge multiple types of provisions so the system provides segregated working so according to the reference multiple types of utility computing references can be utilized and various activities can be performed.



Fig

Figure shows the difference

Documentation

To understand that how the settings will be provided and to understand that how the synchronization will be undertaken different types of working documentations will be provided to the users and these working requirements will help to acknowledge the details properly. Documentations are important and have to be digitalized for the variations of understanding.

Legal

Legal considerations are also important because we have to provide efficient way of information to be acknowledged or to be communicated with the users so that they can utilize the system properly. All references of work conditions and working rights will be properly acknowledged for the better usage of the system.

Transparency

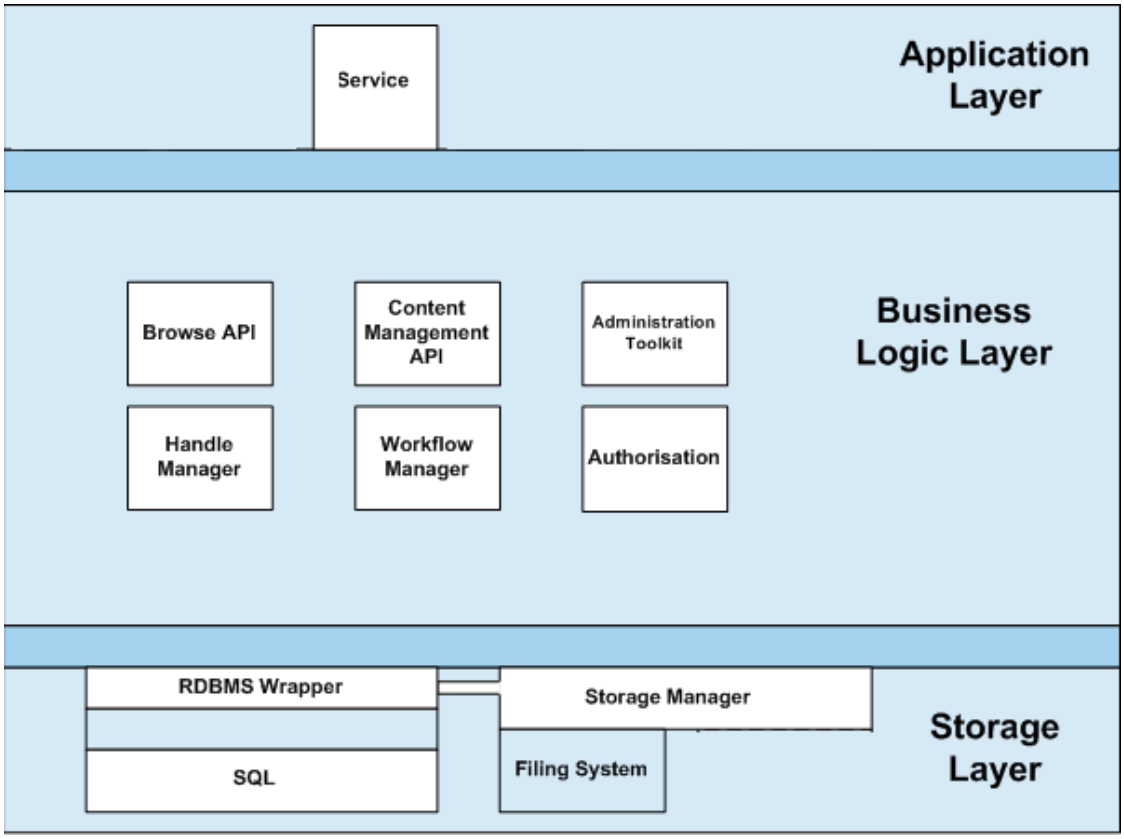
The system will be transparent in terms of applying different types of setup consideration so that different types of proceedings that are undertaken through the system can be properly controlled. Multiple types of setups and different types of integrated working settings are provided in each and every page that will be utilized for the different provisions of work.

4. System Design

System Perspective

Architectural diagram

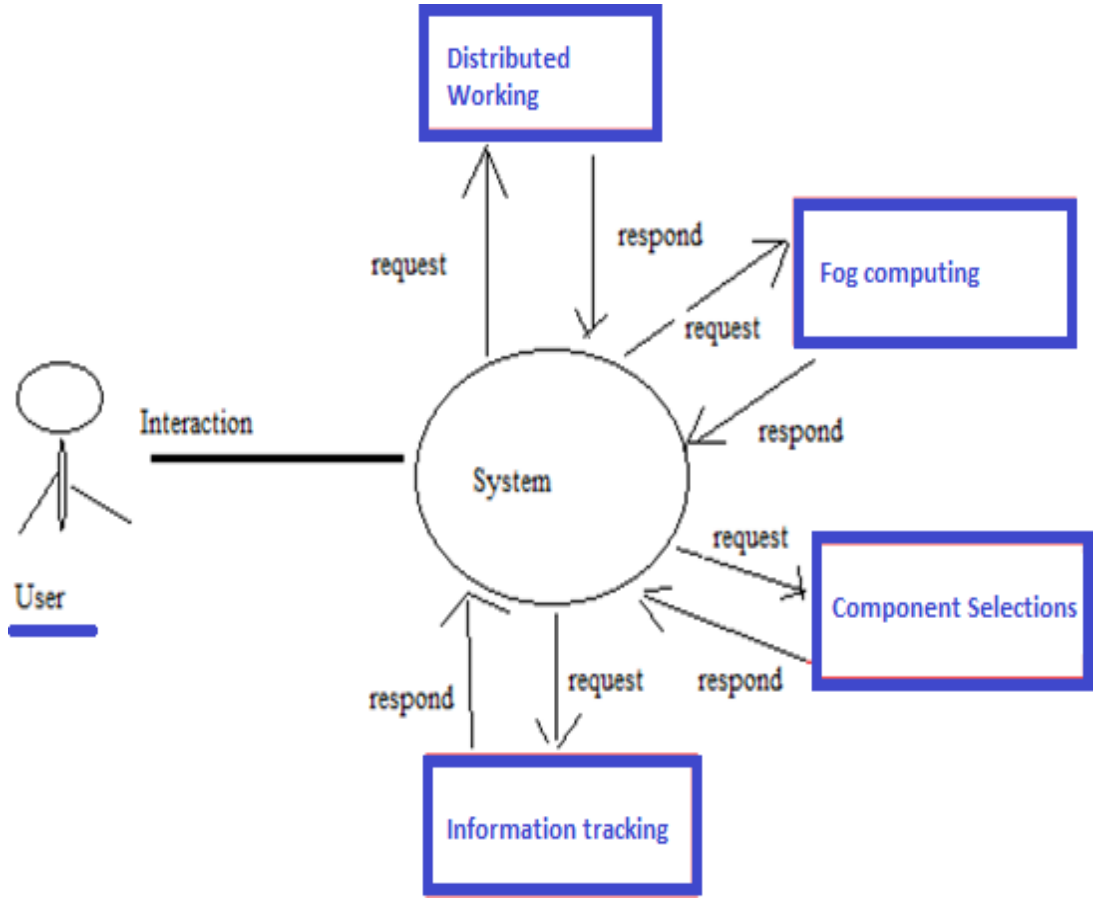
Architectural diagram shows the detailed plans of the system components in different level office implementation.



Architecture diagram

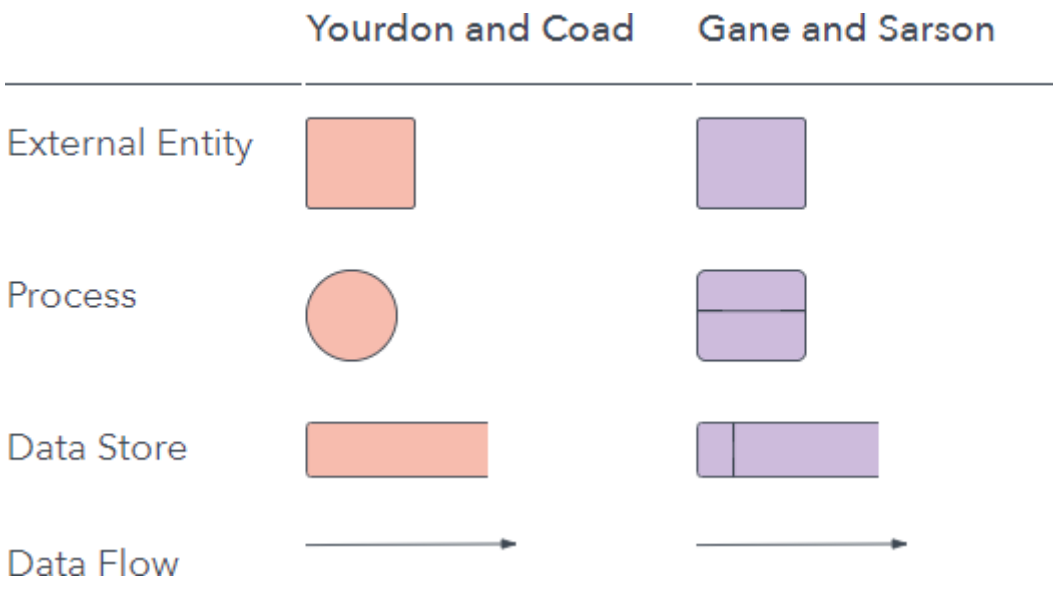
Context Diagram

Context diagram shows the information at a glance which includes all the scope and boundaries of the system. Context diagram easy to draw and no technical knowledge is assumed while designing it.



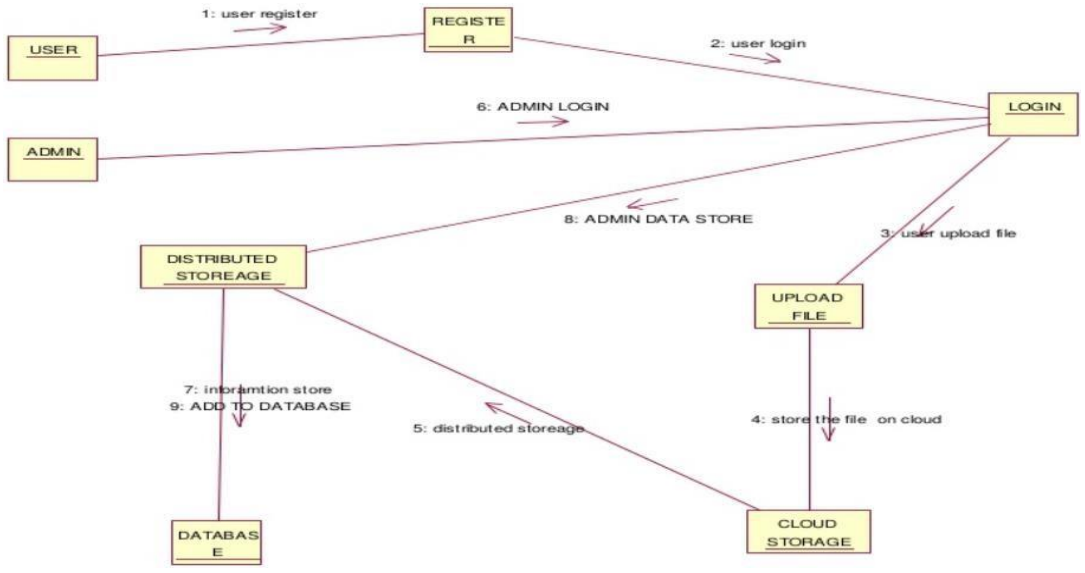
Data flow diagrams

Data flow diagram represents the flow of data of a process where the related information based on inputs and outputs of each entity will be represented.



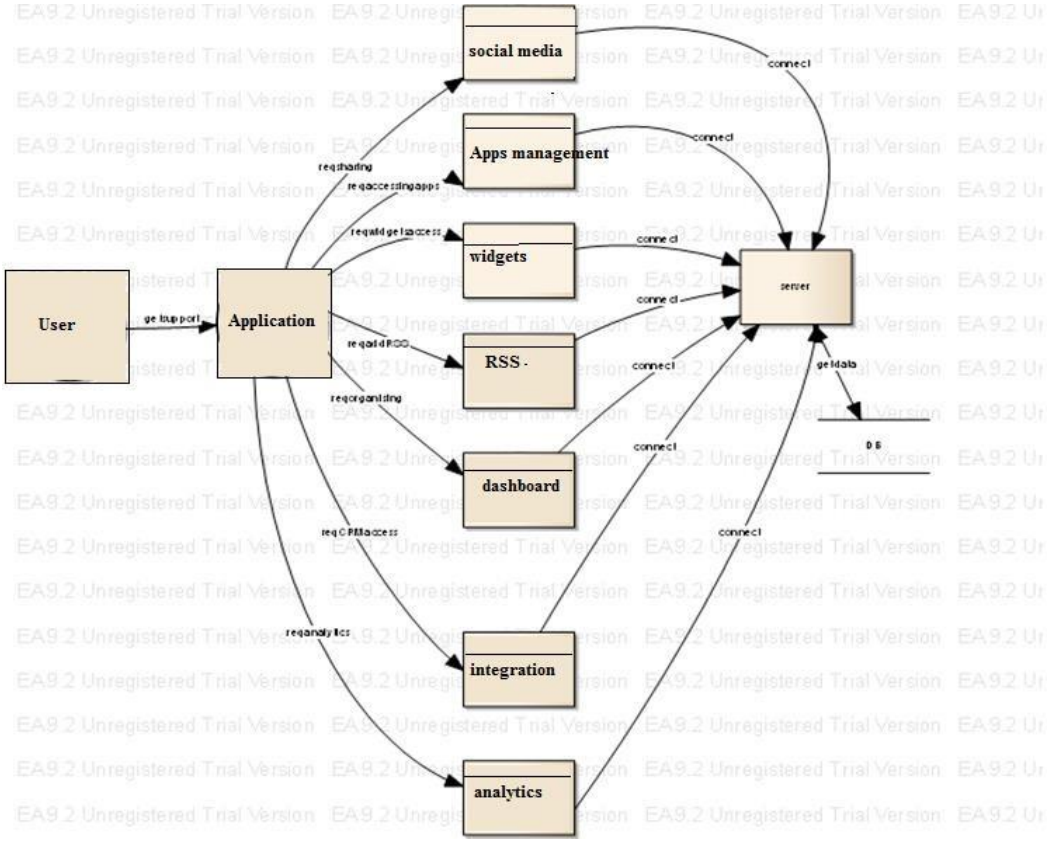
Data flow diagram of admin

DFD for storage

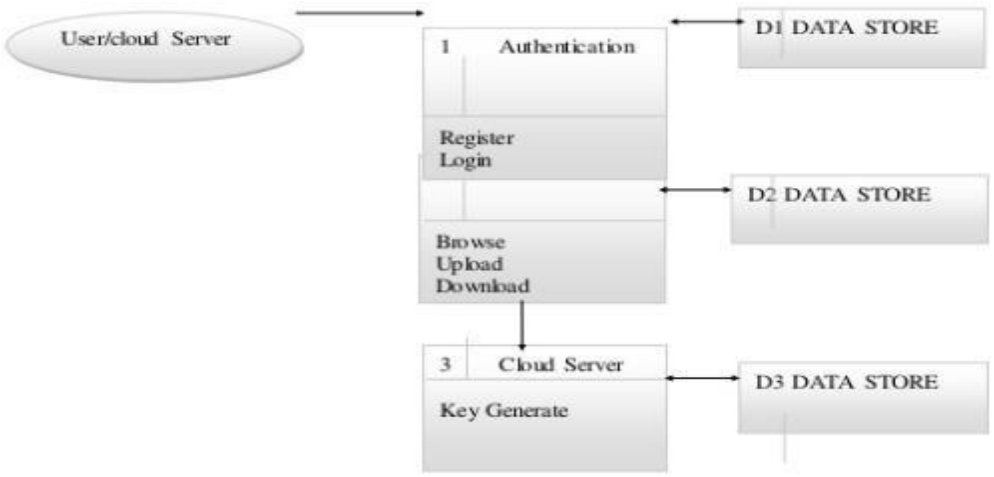


Collaboration diagram

Data flow diagram of user



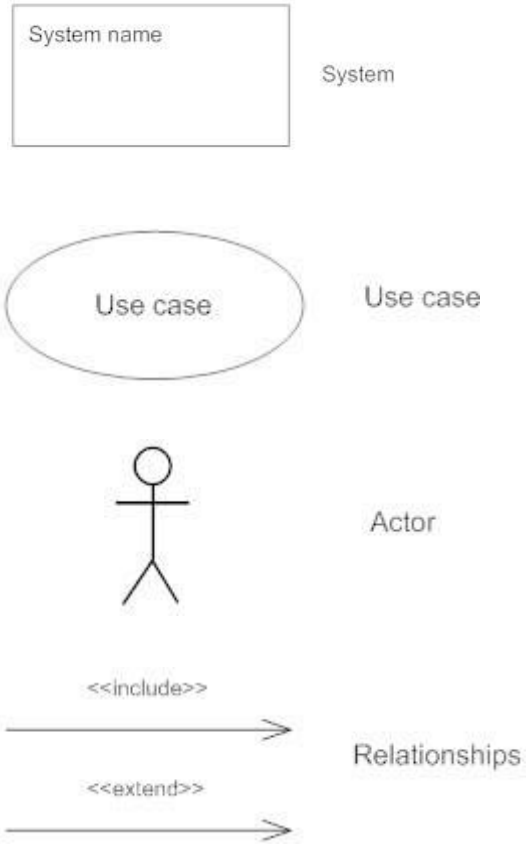
DFD diagram

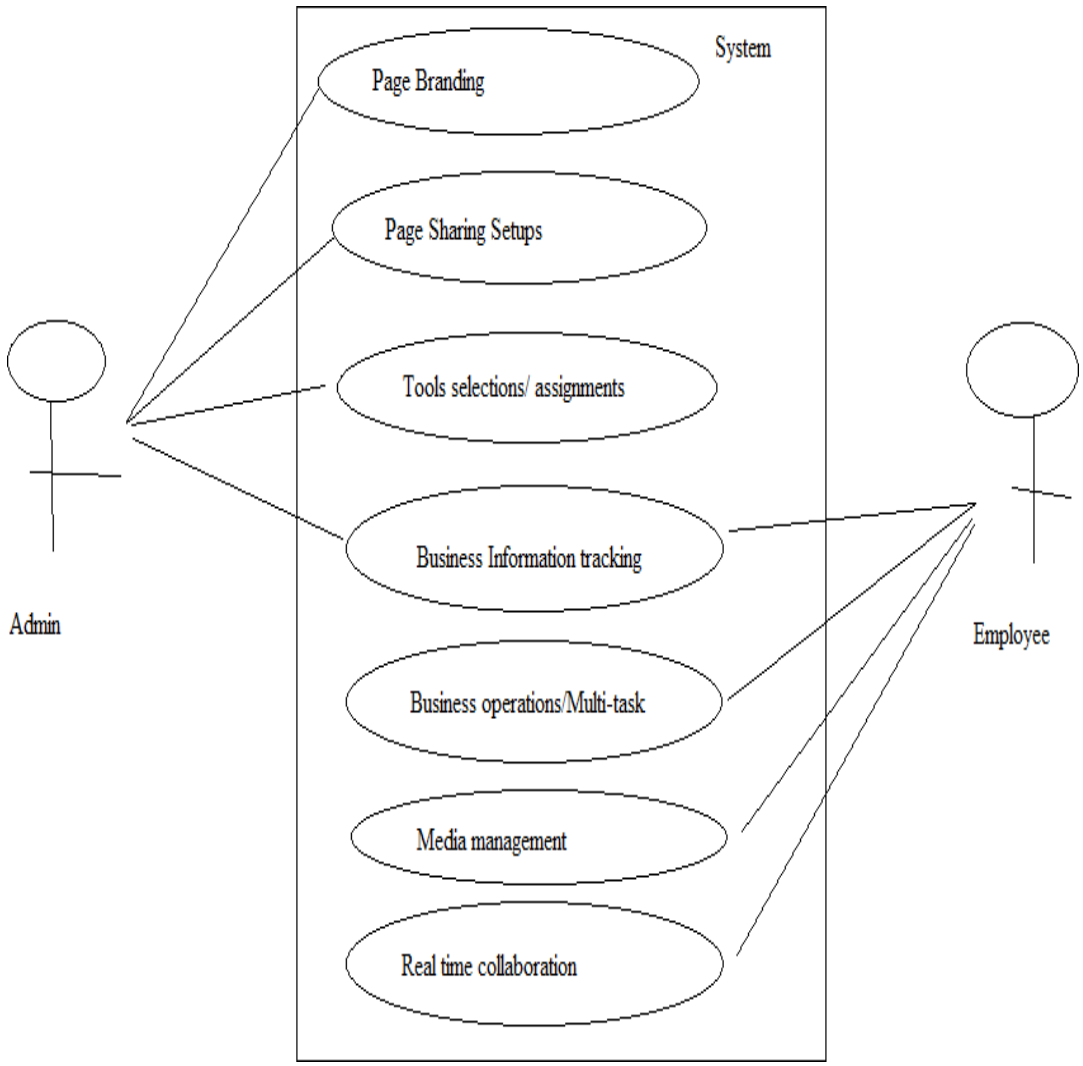


5. Detailed Design

Use Case Diagrams

The use case diagram defines the interaction between the actor and the system to achieve a particular goal that has to be considered for the working.



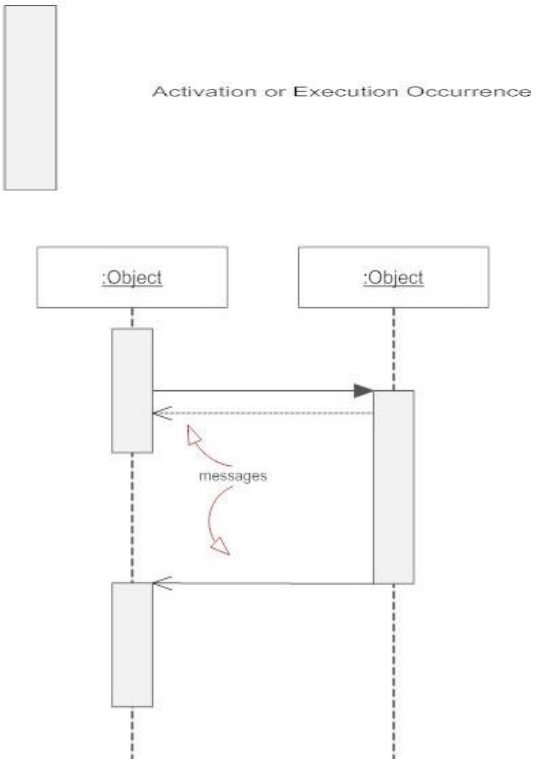


Use case diagram

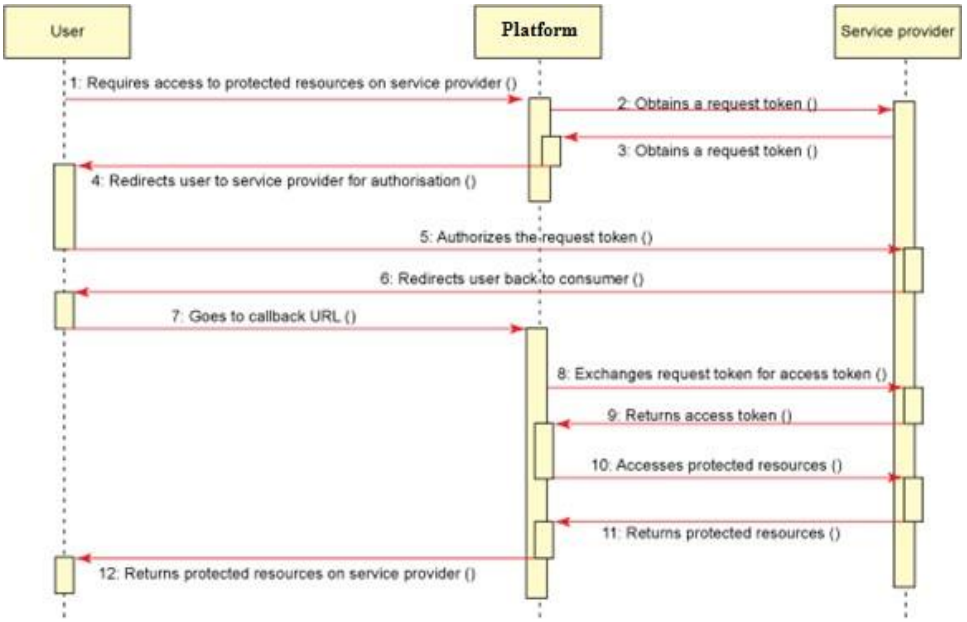
Sequence Diagrams

Sequence Diagram for admin

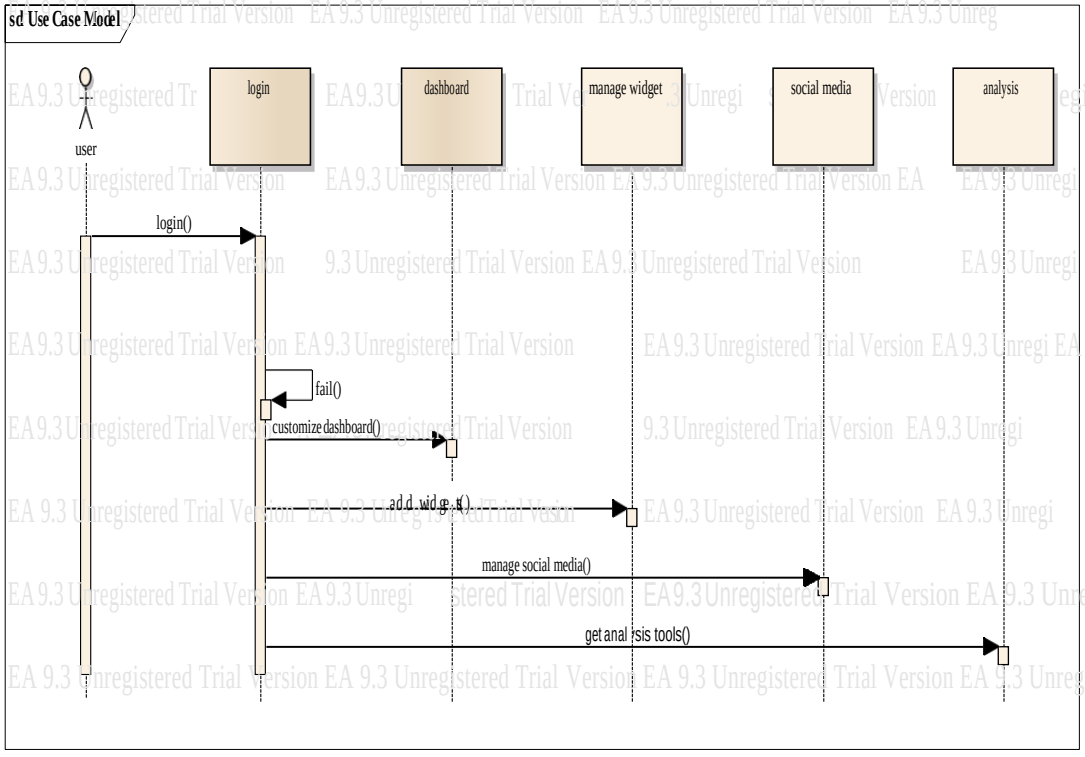
Sequence diagram shows different types of task that will be done between the user and the system.



Sequence Diagram for user



Sequence diagram

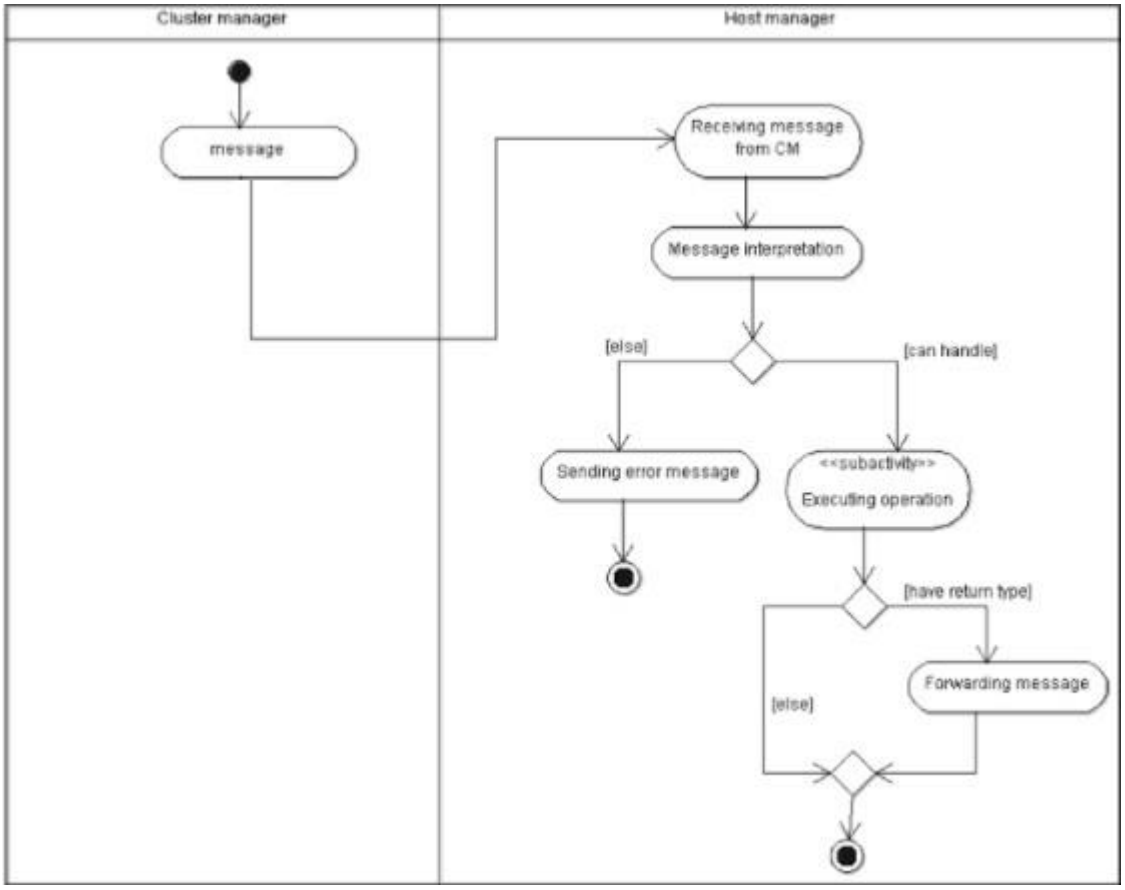


Overall sequence diagram

Activity Diagrams

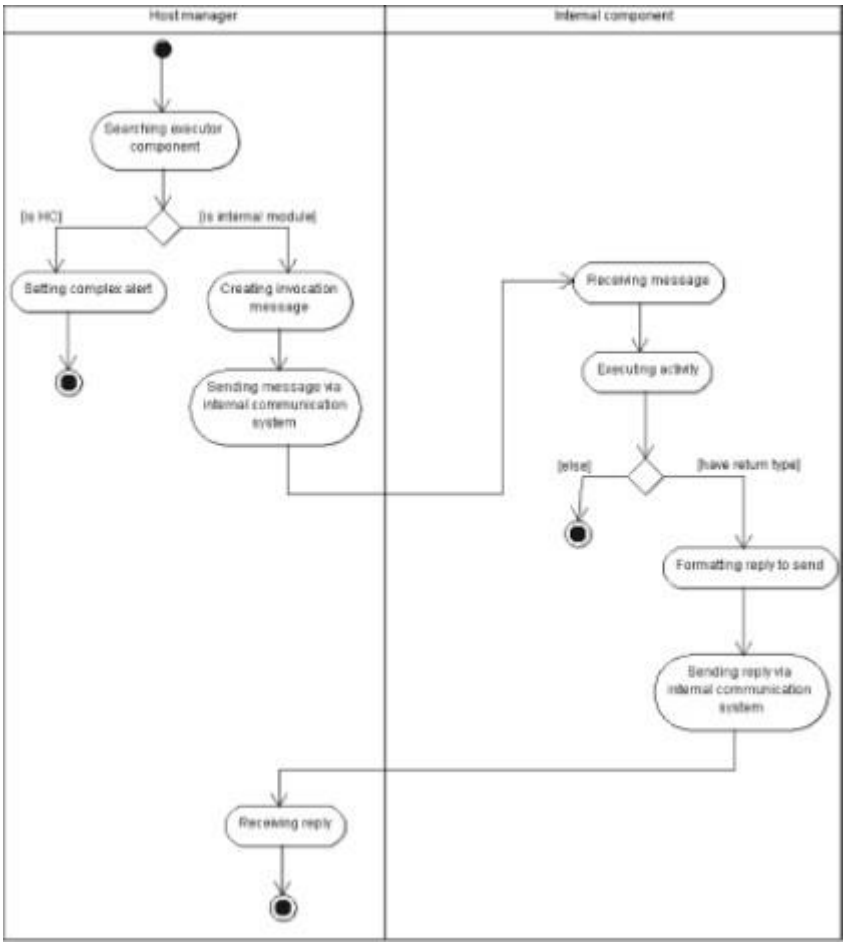
Activity Diagram for admin

Activity diagram shows the sequence of activities and a describe in parallel branch in con current flow of the system.



Activity diagram

Activity Diagram for user

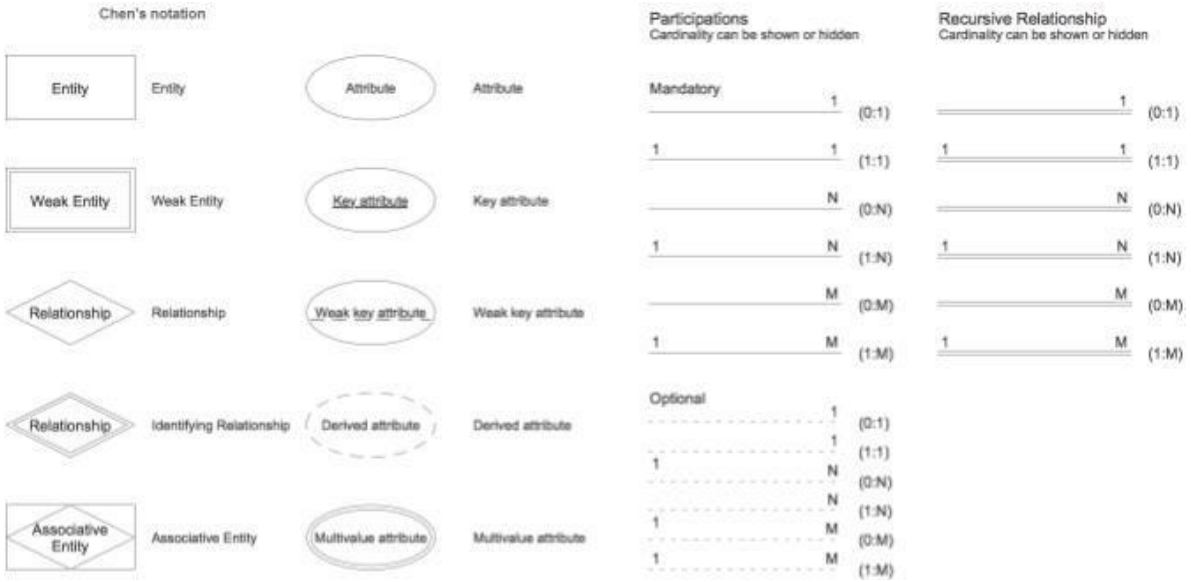


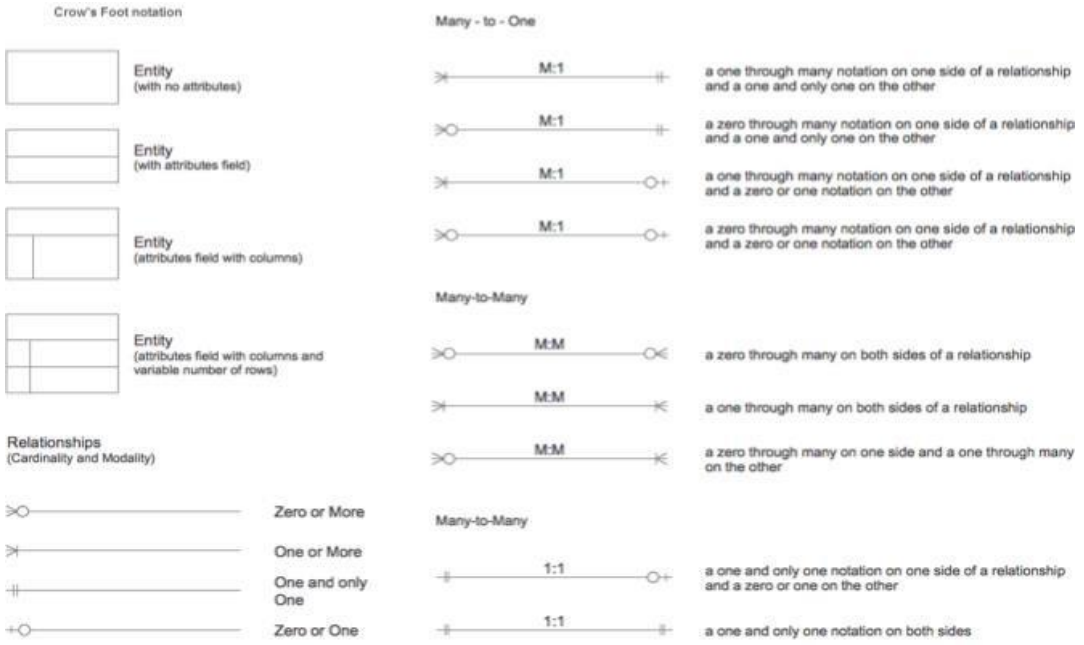
Activity diagram

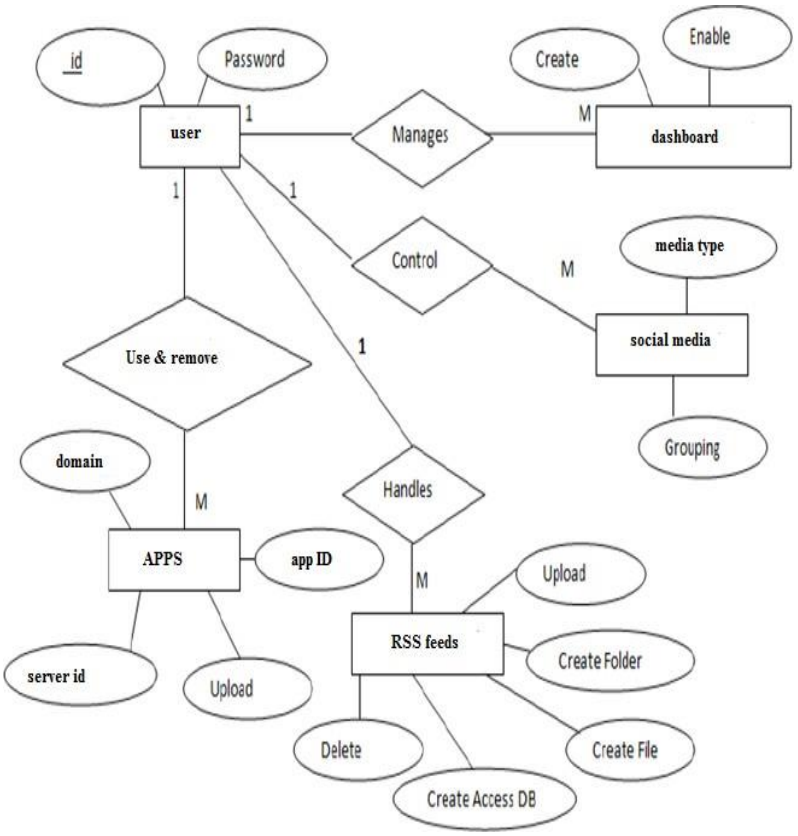
ER Diagrams

Entity relationship model

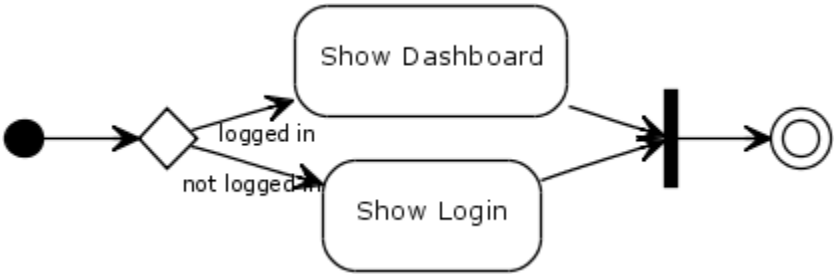
Entity relationship model helps us to understand the related data requirements so that well design database can be organized.







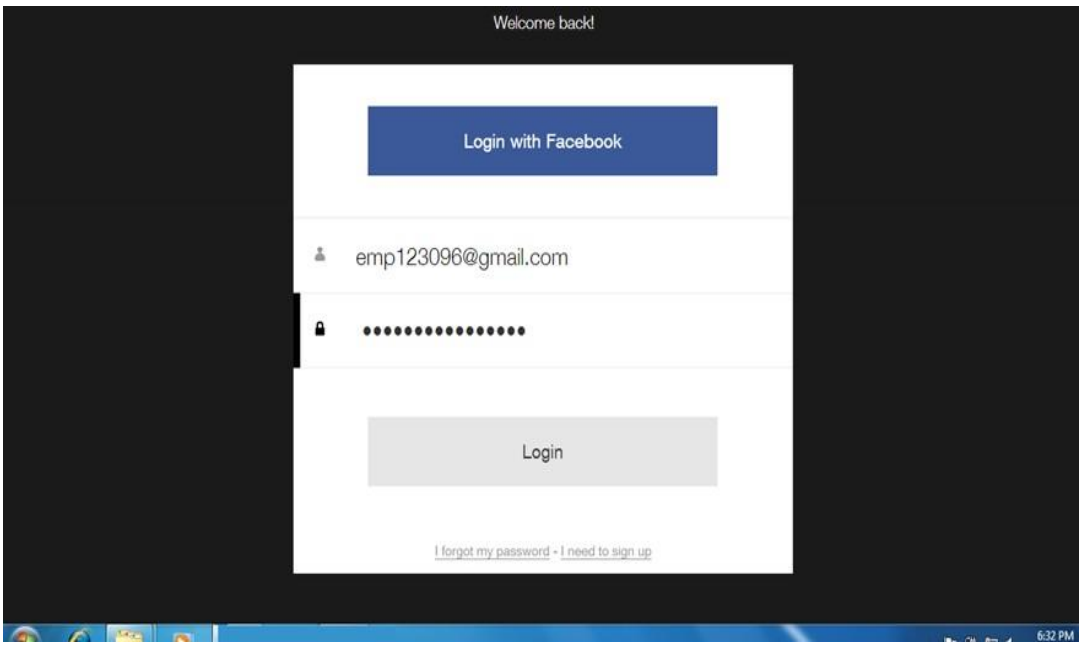
ER diagram



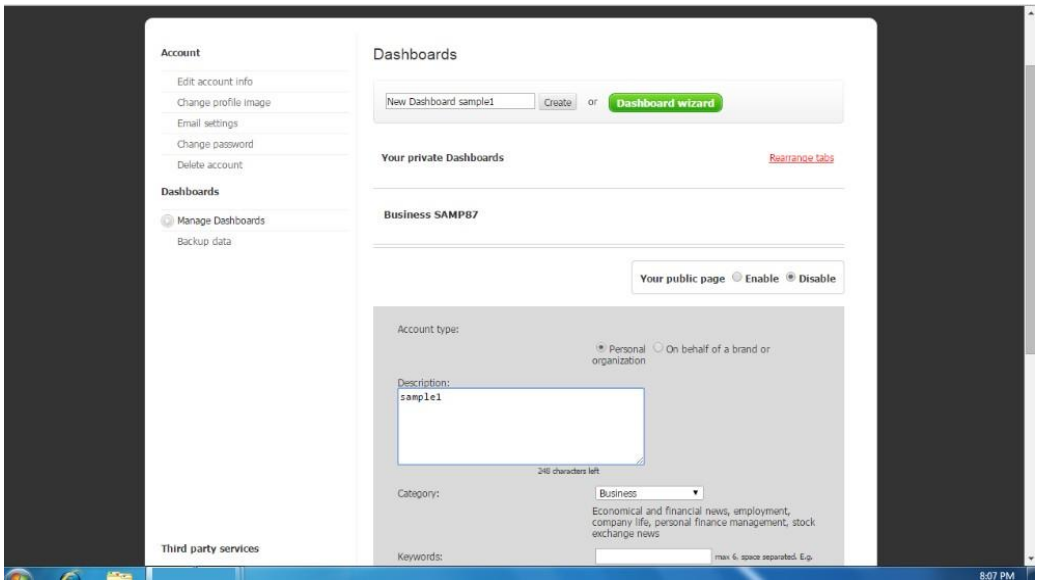
Activity diagram for dashboard

Implementation

6.1 Screen Shots



Login page



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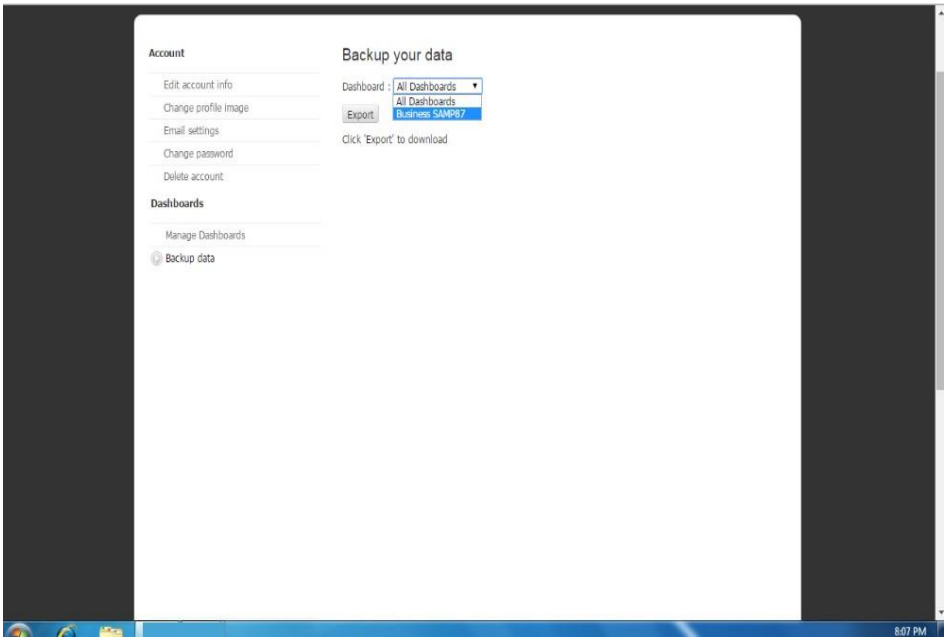
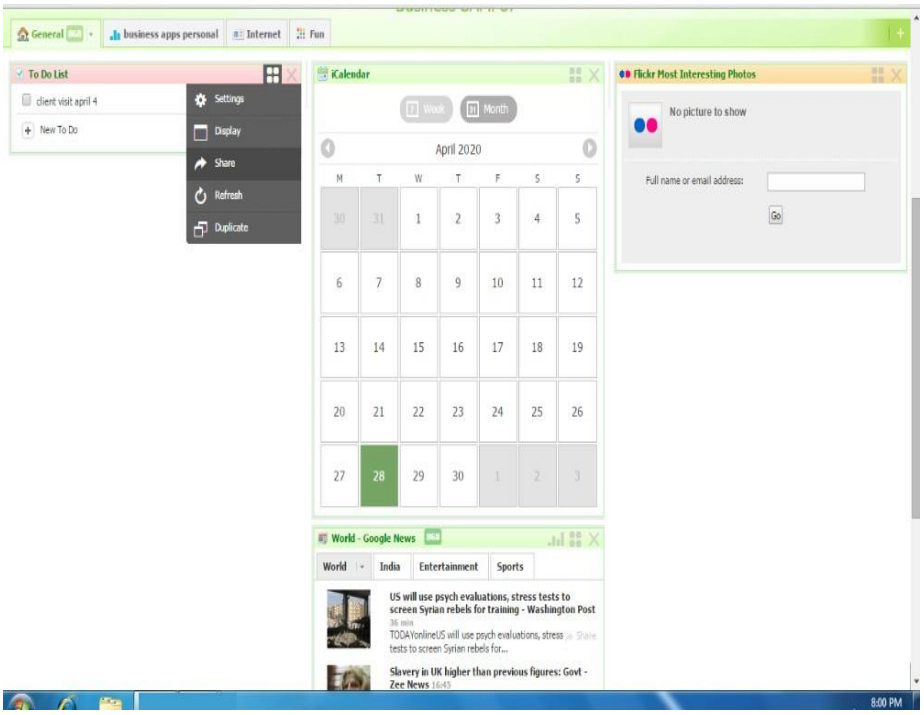
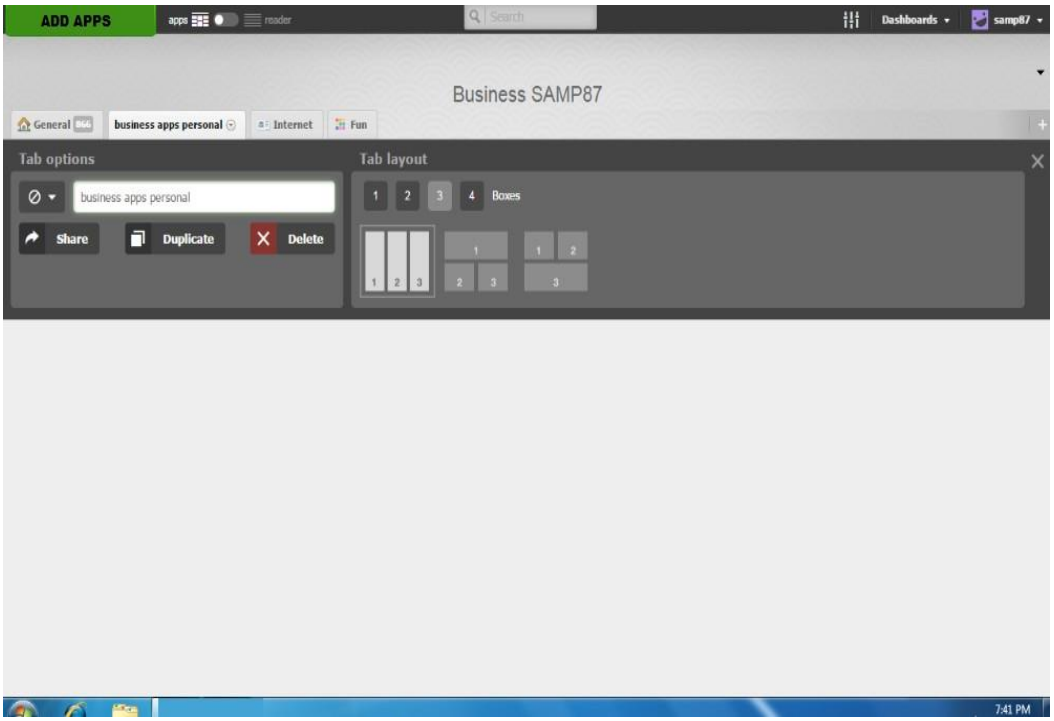


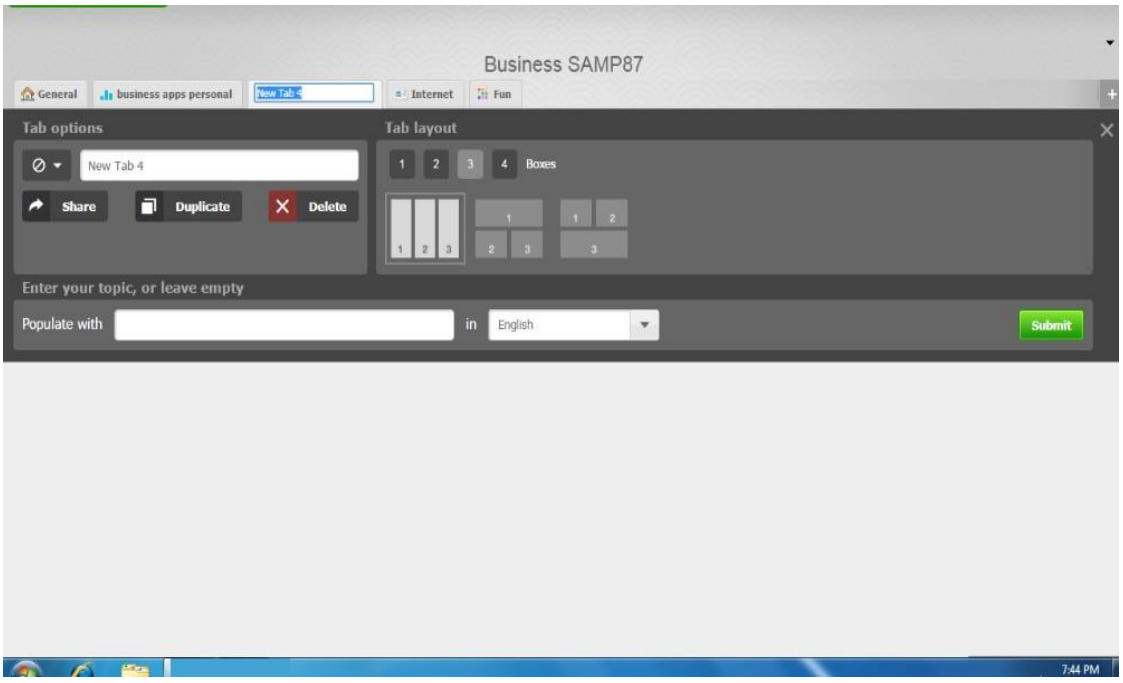
Backup



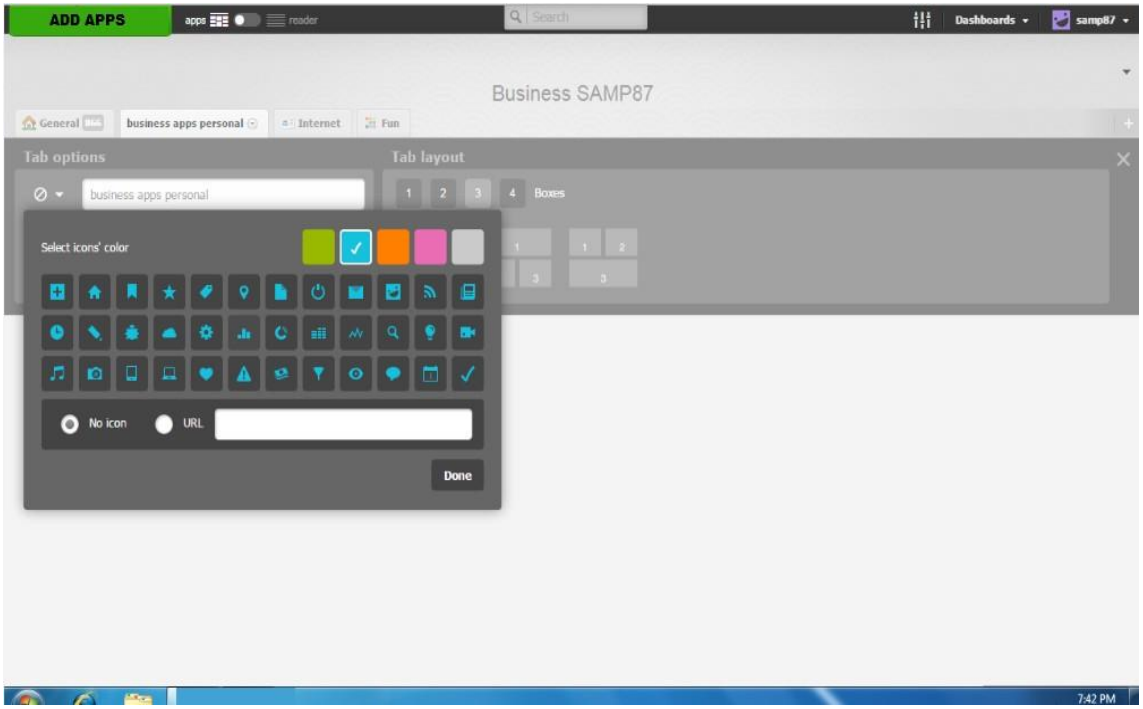
Different page settings



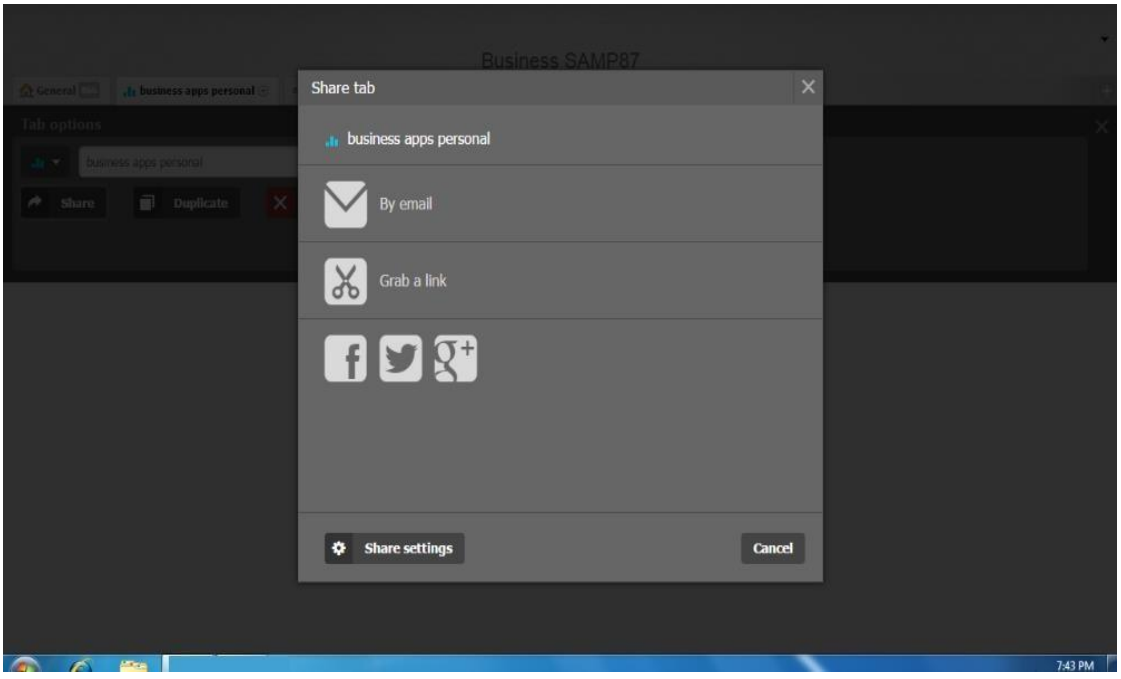
Design of different pages for the working



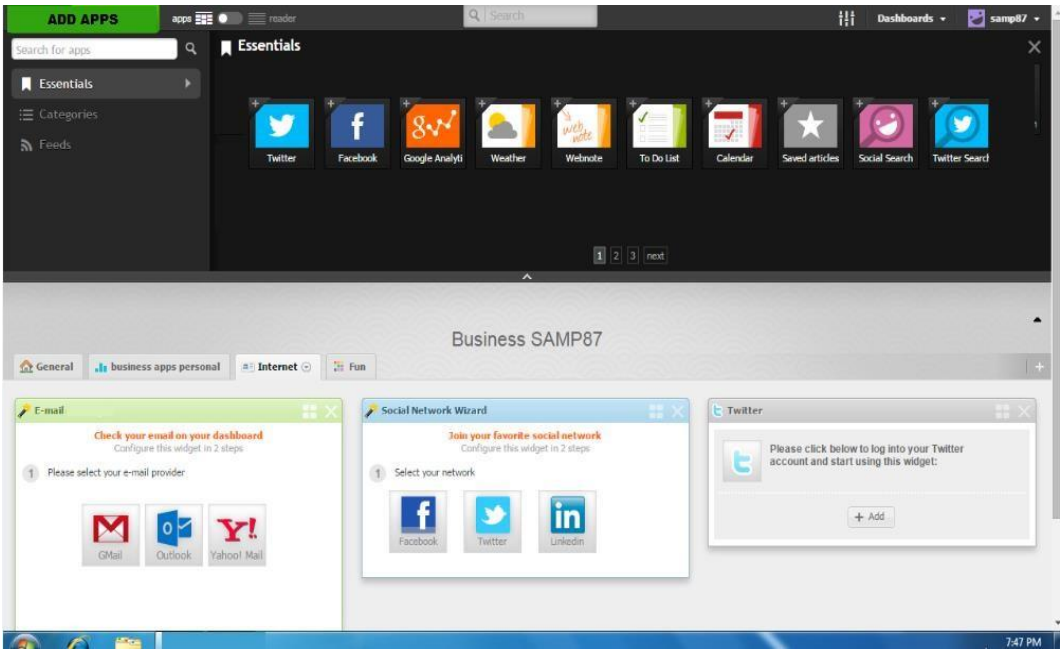
Additions of multiple pages



Custom settings for the pages



Sharing options for the particular page



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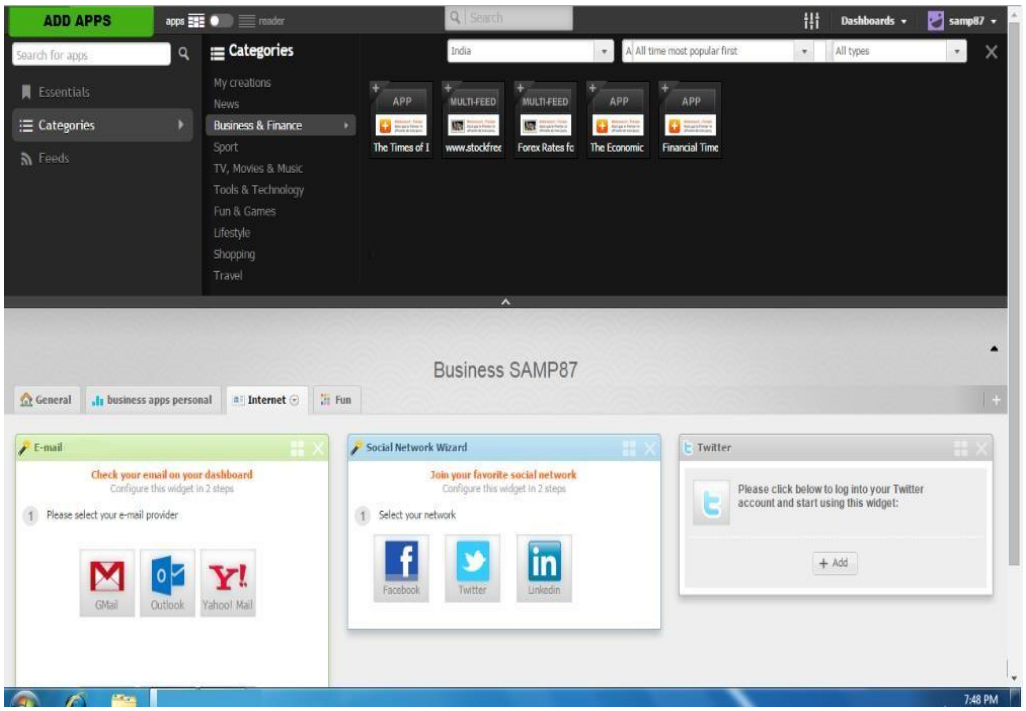
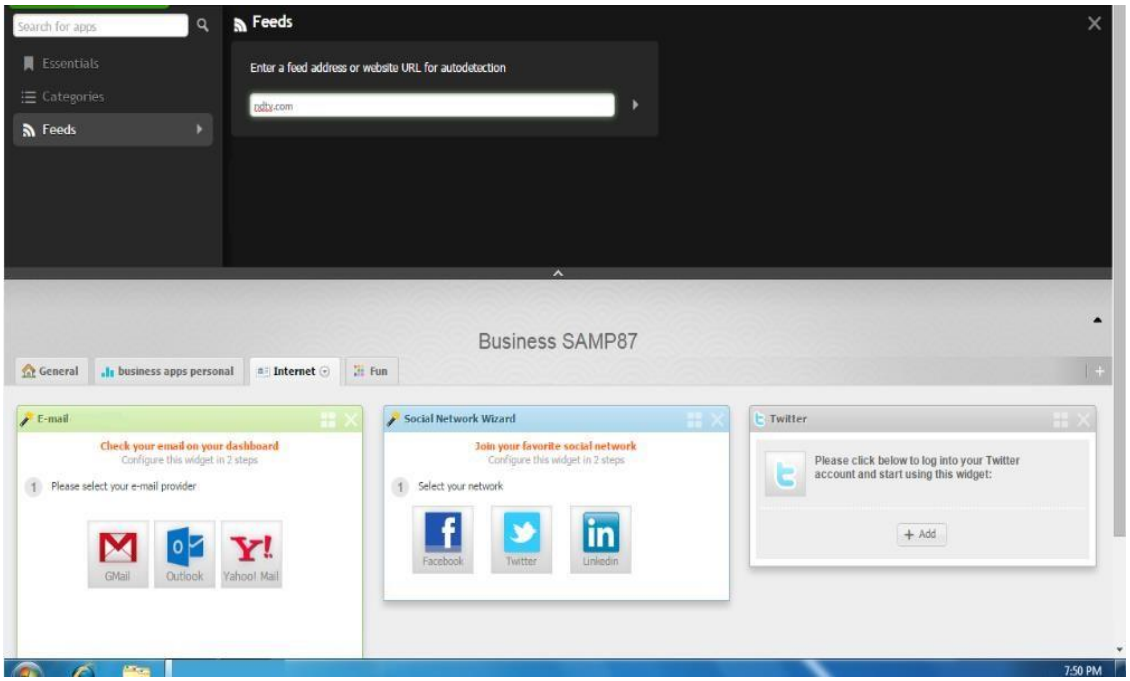
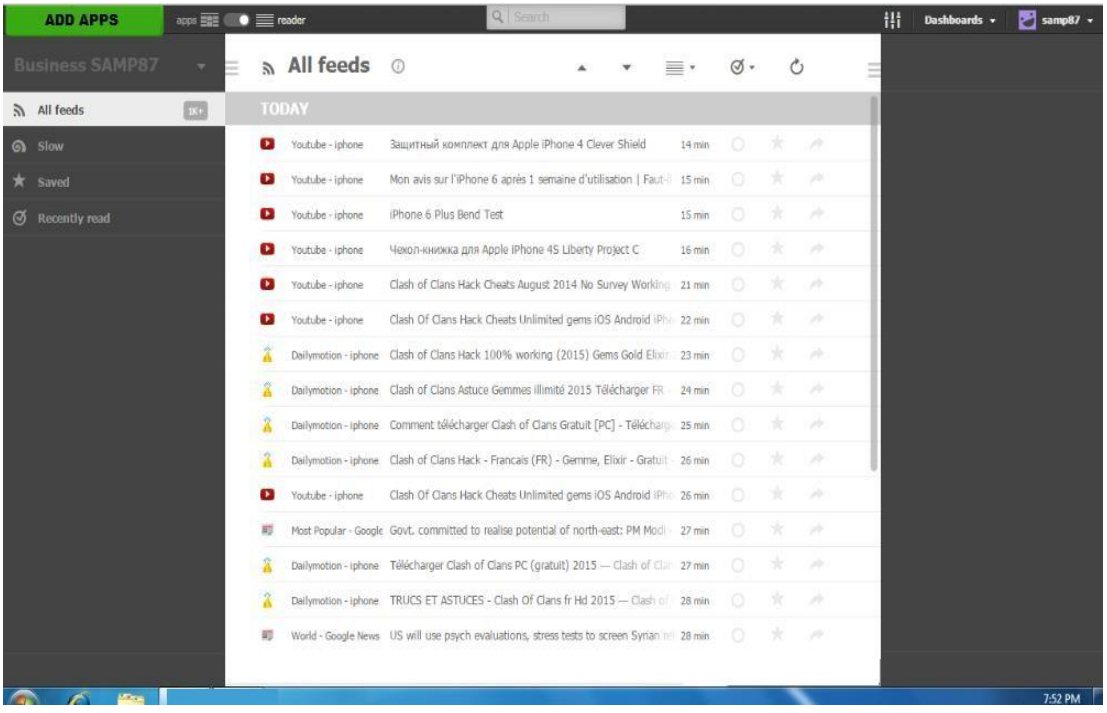


Categories and selections



Provisions of the information tracking



Detailed information provided, even customization can be referenced

7. Software Testing

Software testing references are important and have to be achieved with proper explanation of each and every feature that is associated so we will be implementing different types of techniques and we will be referring the work outputs. All the related components that have provided will be checked and the related outputs will be defined so that we can check that proper acceptance in terms of working is acknowledged. All types of considerations that are required to be implemented for the users will be undertaken because the consideration should match according to the perception that we have discussed for this detailed evaluation documentations and different types of tools will be also utilized.

Multiple types of considerations that are based on testing requirements will be acknowledged and we have to do a proper exploration so that at the final review when the users will be provided the system there should be no problem. All types of problem references will be properly acknowledged and detailed referential working will be associated. Multiple types of conditional objectives will be undertaken to check that all types of workflow enhancement that is undertaken works properly for different types of operational solution. Considerations are important to be checked because the synchronized workflow reference is required to be maintained. Multi aspect of the consideration will be undertaken in the testing reference and has to be properly outlined.

Fig – testing

The above figure shows the cycle for the testing.

Unit testing

Unit test references are important to be tracked so we have to accomplish that each and every reference should the first outlined on individual considerations.

Data flow references and code coverage references are used

Each and every option for the infrastructure design on the individual work for Section with all types of security that is provided will be checked even the referential status that are provided for the view is also considered.

Different type of working interpretation will be also check for the accuracy as we require a proper tracking.

Information references that are provided from other mechanism and other channel will be also check for the customers filter provision.

Multiple types of considerations that are undertaken for the synchronization and for procedural incorporation will be checked.

All types of work undertaking that has to be established for the references of measures will be checked because multiple consideration will be taken at the same time.

White box testing

We are defining white box testing because we require more exploration based testing to be implemented on each and every consideration of the system.

Detailed codes that have written will be checked at the time it has been written so that all types of primary level working can be properly qualified.

White box testing will be done only by the users those who are having detail knowledge about the work processes and work proceeding.

Test cases

No	Test	Test Input	Expected Result	Actual	Test	Severity
1	Administrator	Id and password provided	Different reference provided for settings	Implied settings	Pass	Critical
2	Frame settings	Settings	Modification options	Structuring	Pass	Critical
3	Pages of operations	Design settings	Pages added	Operations setups provided	Pass	Critical
4	Customization	Settings and inputs	Reference of details added	All work support provided	Pass	Critical
5	Integration	Selective	Social media and other platform reference added	Sharing detail added and working performed	Pass	Critical
6	View	Settings	Integration	Added view options	Pass	Critical
7	Info	Provided input	Info provided	Details of the information provided	Pass	Critical

8	Utilities	Selective options	Sections selection	Added for the reference provided	Pass	Critical
9	Sync	Automated	Sync considerations	Provided with working considerations	Pass	Critical
10	Teams and users	Id provided	Details of setups provided	Reference added and teams working association seen	Pass	Critical

8. Conclusion

We can conclude that references of retrievals of utilities that are provided with the system and the exploration of different types of information with a proper infrastructure setup will boost the organizational working. Any type of consideration that is needed for different types of characteristic references is included within the system which is very much helpful and any reference of the workability can be preceded. All types of reference in that are required is properly established within the system and the considerations are quite properly implied. We have also seen that multiple types of visitors with access settings and other brand settings can be loaded which will be helpful to organize the view perceptions and to locate the work properly.

The reference of integrations are also properly accomplished so multiple types of third party references for accomplishing the effectiveness of the working is provided which are been properly associated and accomplished within the system. Formation of working is properly associated so we can rectify the related references any time required or we can say that centralized control is being provided for undertaking different types of work. As the system provides multiple types of platform incorporation different types of platform references a check individually so we add multiple platform and we add different types of utility provision and check for the reliability and for the real time work in every found that all related perceptions satisfactory Multiple conditional sharing is also supported so multiple teams are added and they can work in real time. We can control that multiple perceptions can be enhanced and different types of workflow consideration can be undertaken at the same time which is quite collaborative in working nature and provides more flexibility.

9. Future Enhancements

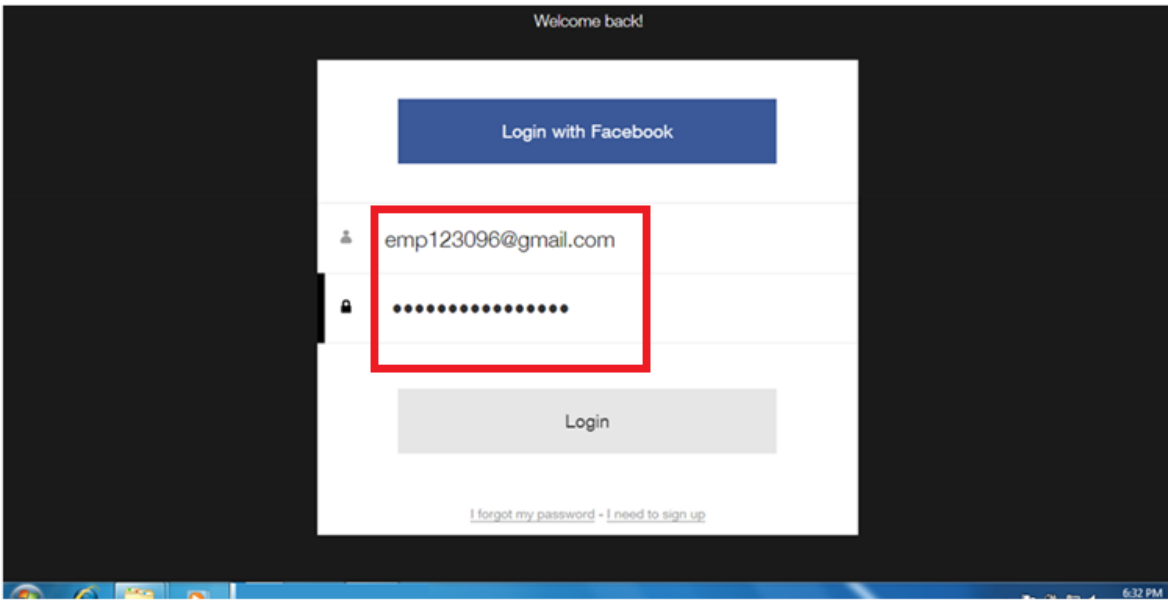
Future enhancement is important because we have to recognize the problems and we can add more perceptions, if the new requirement arises in the future for the users. Some important considerations that are being associate it is listed as following –

We have to revise the related utility computing provisions so more requirements can be added when needed.

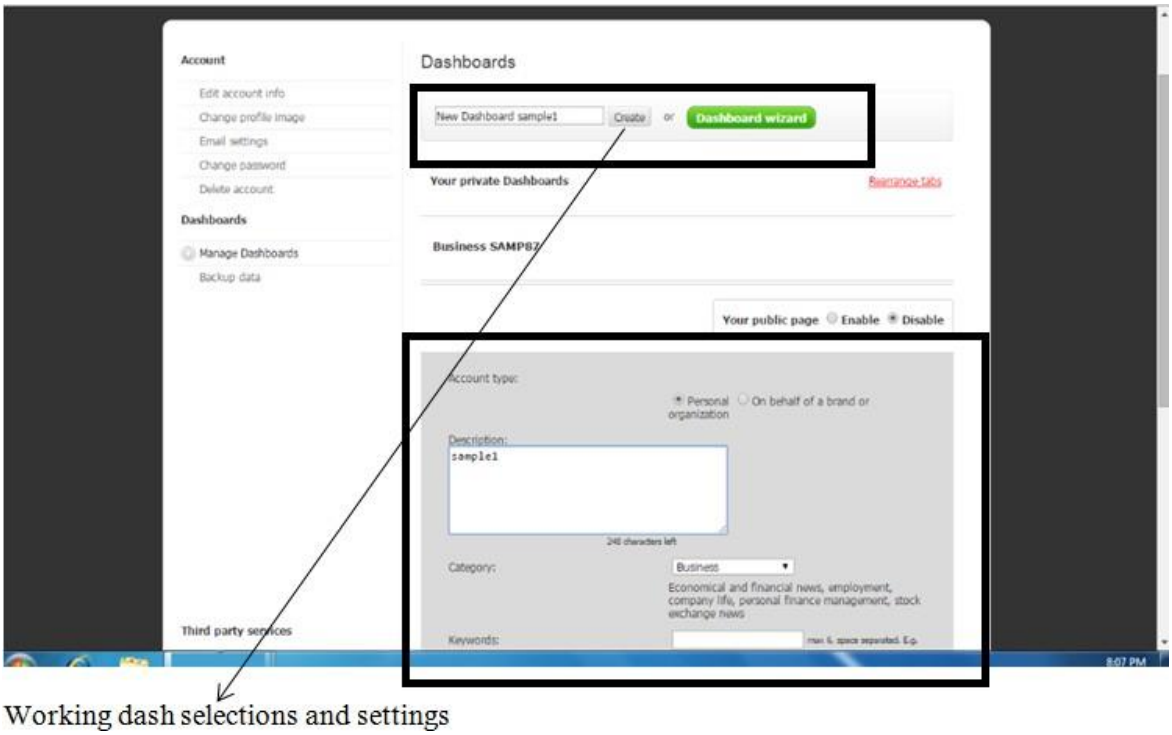
We can add a log system which will help to associate the work consideration or we can say that the uses those were added the system can be traced and tracked.

The considerations of medium that are included within the system can also be elaborated.

10.User manual



Login page



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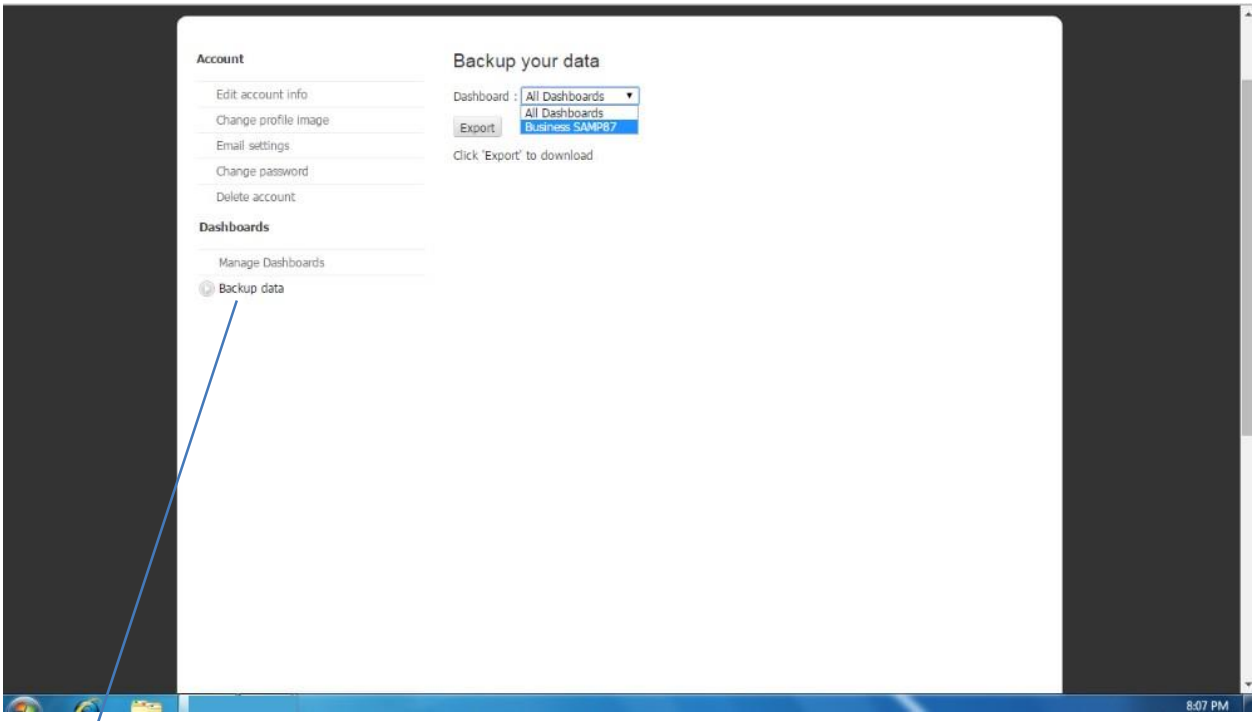
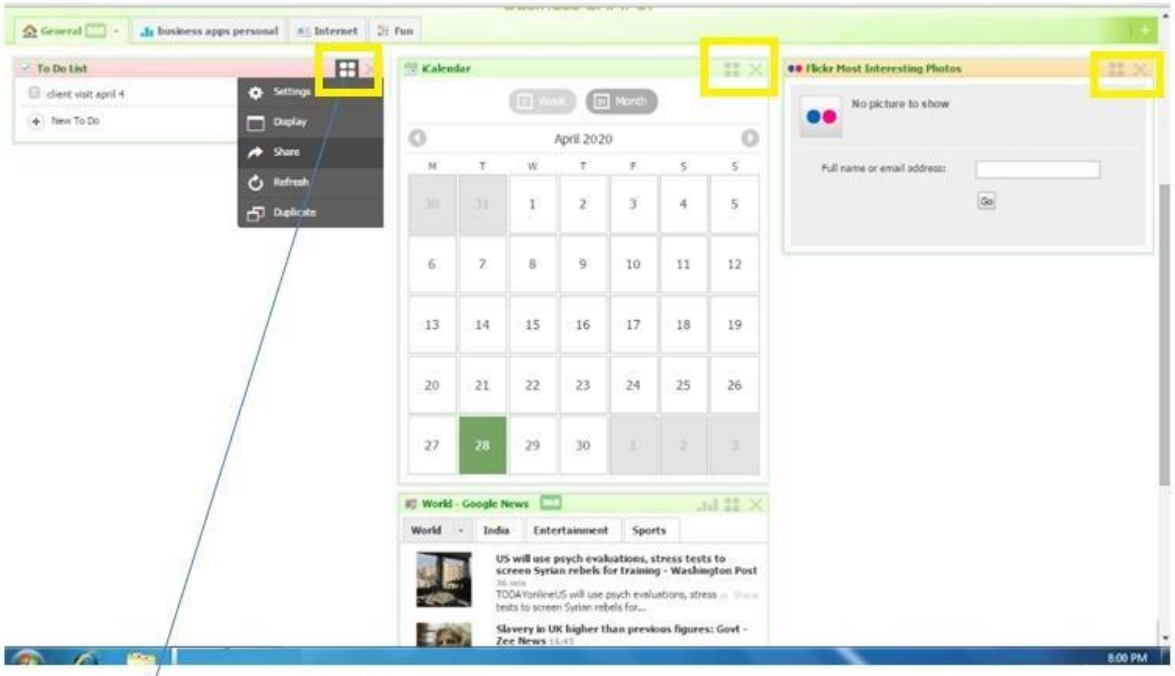
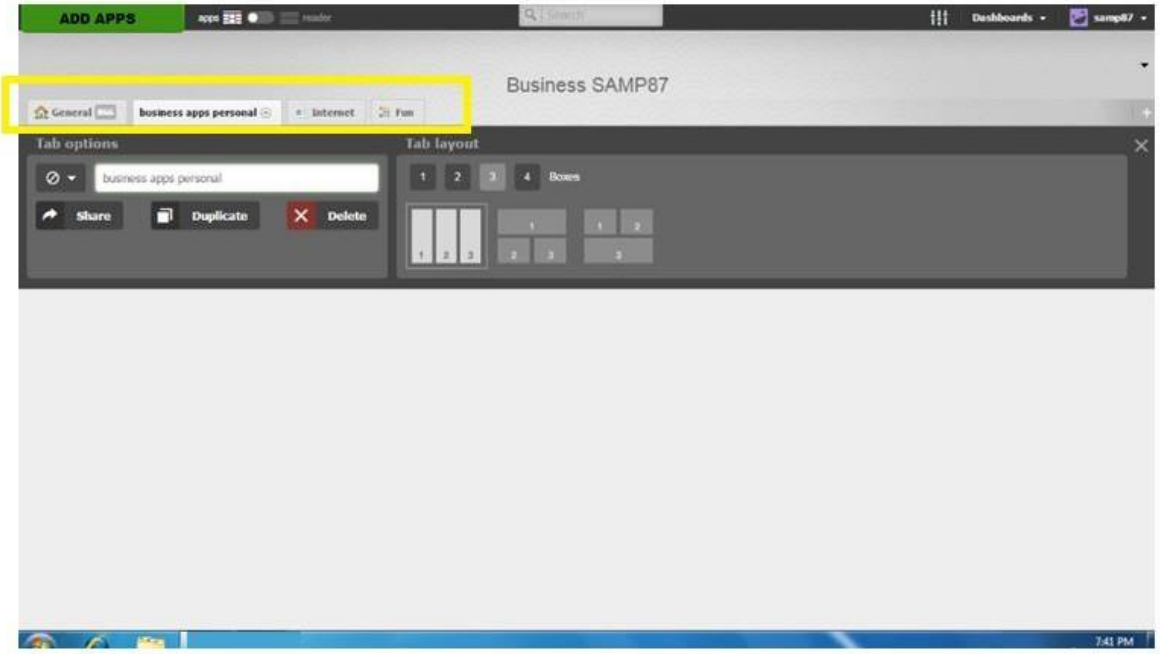


Backup



Different page settings



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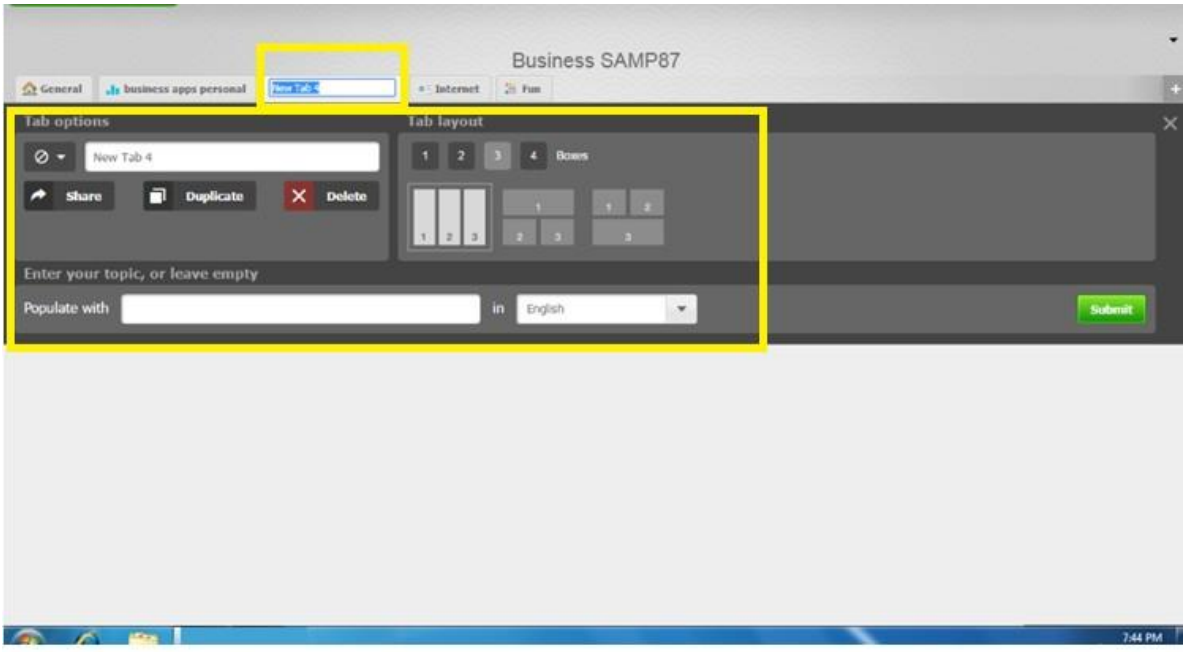

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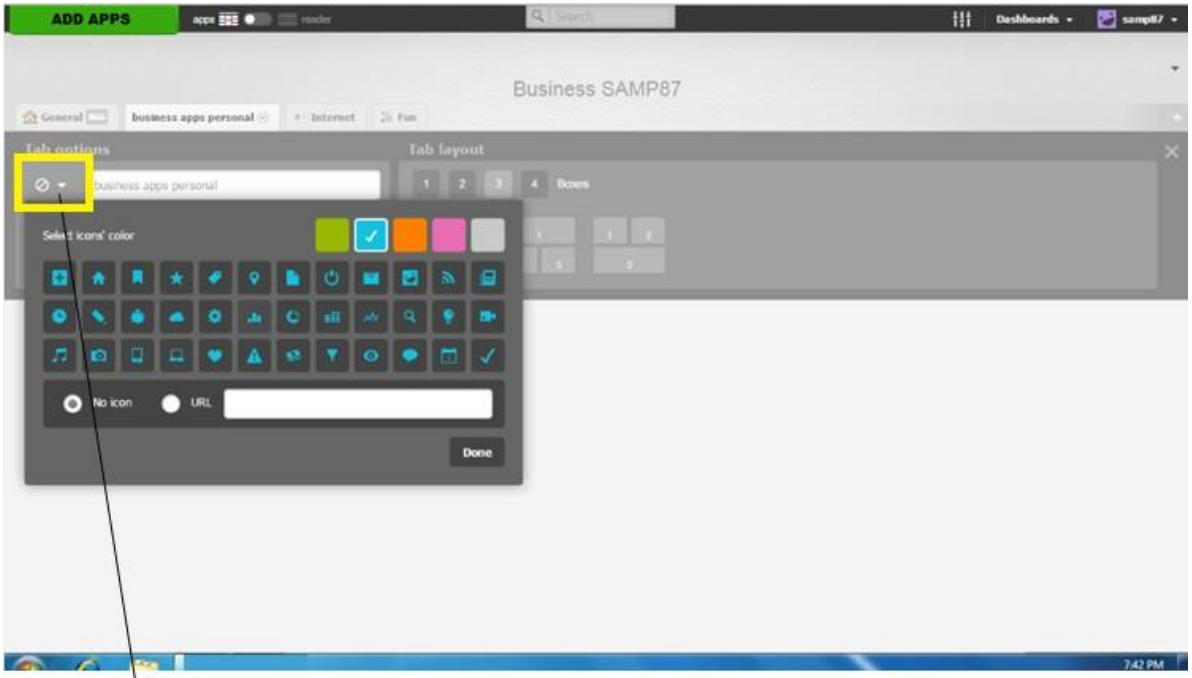

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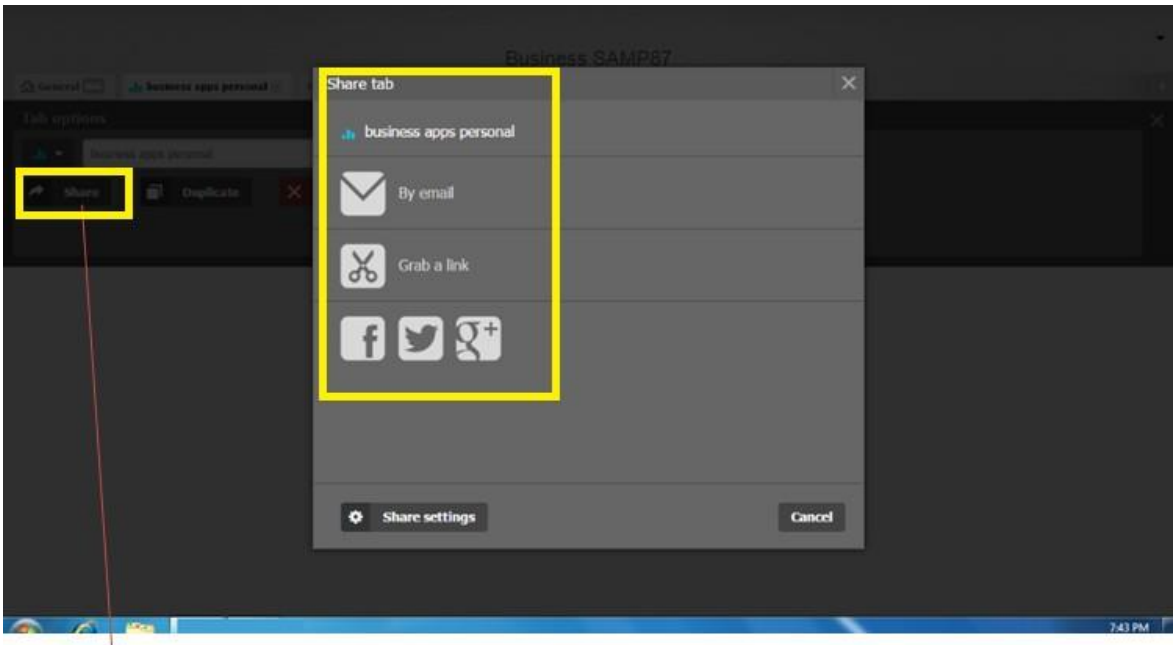
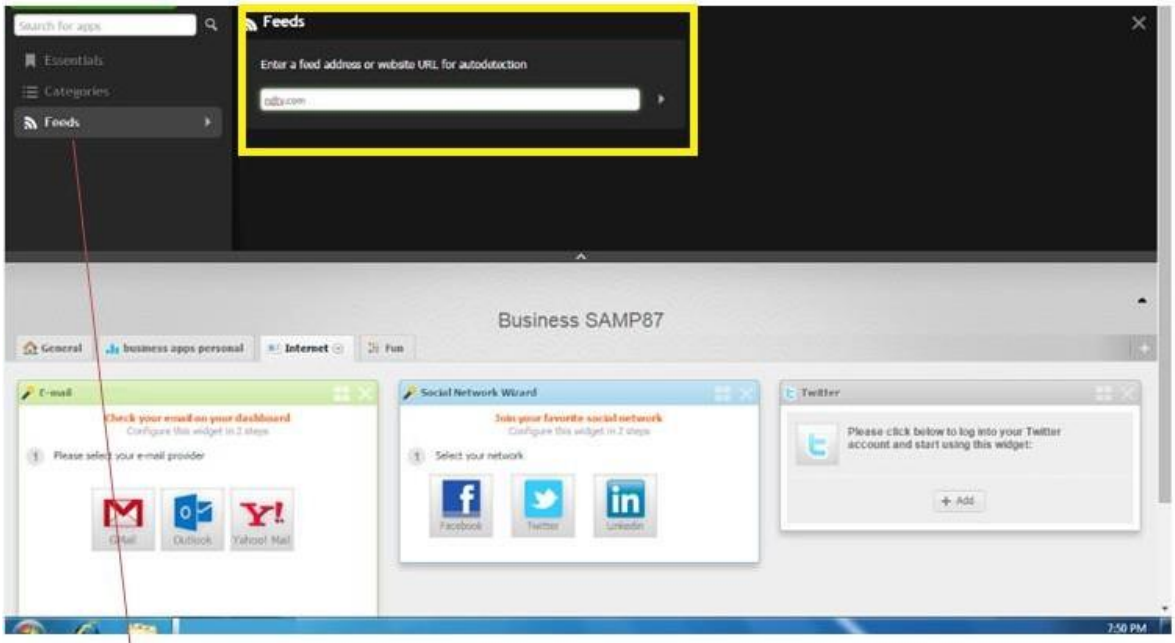


Sharing options for the particular page

Add-on provided for the working

Categories and selections



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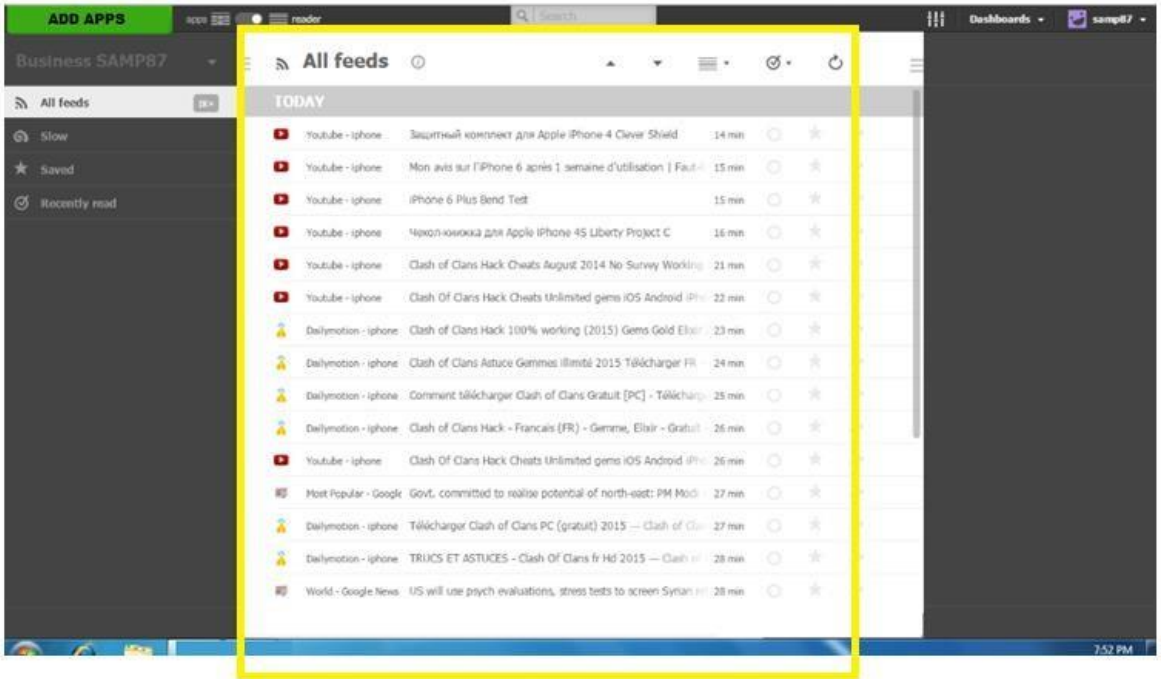

Detailed information provided, even customization can be referenced

11.BIBLOGRAPHY

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